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1
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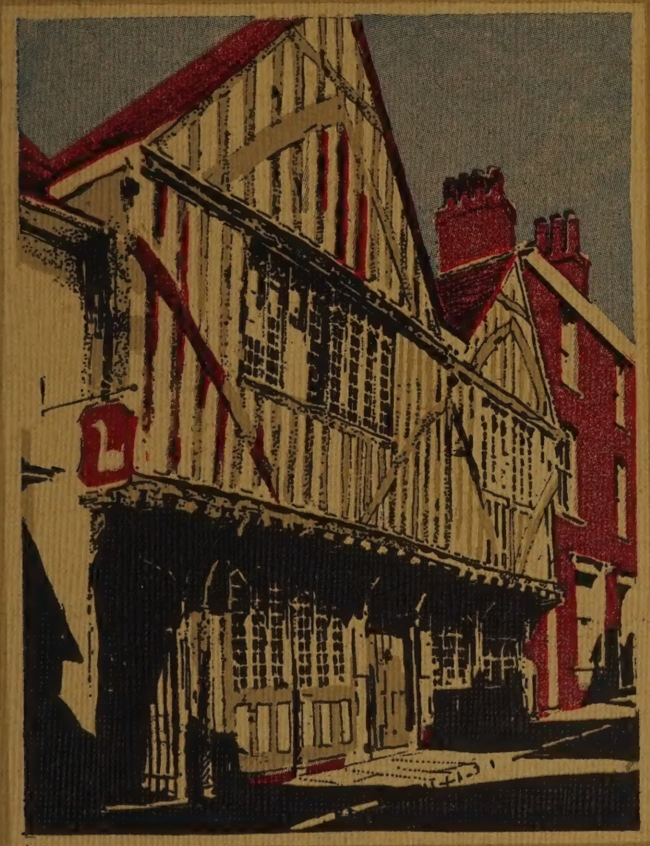
no.5

Keep —
Moses Taylor house

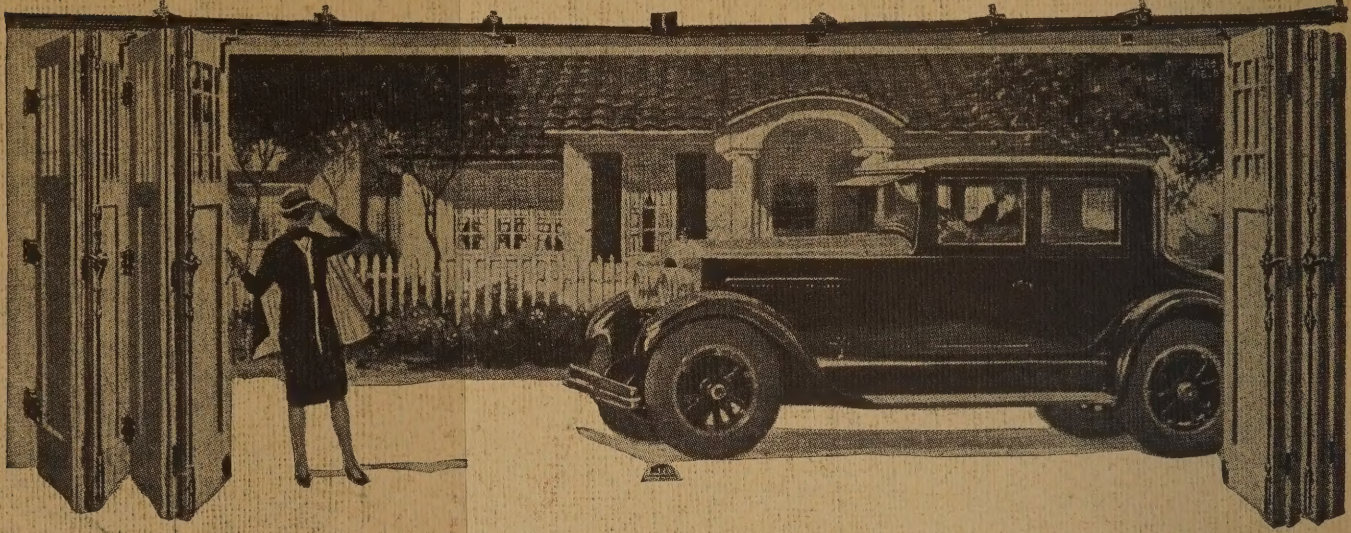
THE ARCHITECTURAL FORUM



NOVEMBER
1926

Slide the doors
on the inside

They have to work—the building stands still

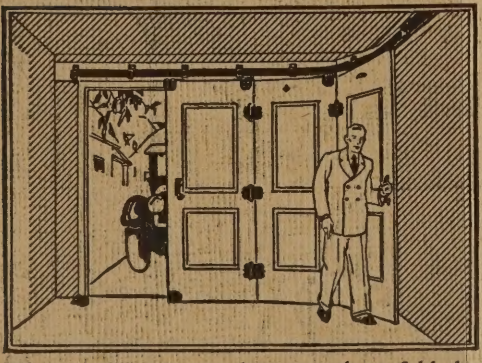


YOUR doors—like the pistons in a motor—are the working part of the garage. And door efficiency is almost entirely a question of hardware.

That's why *Slidetite* Door hardware is so universally used in equipping garage doorways. Its use insures doors that work right and stay right.

With *Slidetite* the doors slide and fold against the wall, *inside;* not exposed to rain and strong winds; not bothered by ice and snow. *Slidetite* equipped doors operate easily and surely and close as tight as the front door of your house.

Slidetite is the most practical hardware for doorways, containing from two to ten doors and any width up to 30 feet. Regardless of width, the opening is unobstructed when doors are open.



When a garage is not deep enough to fold the doors inside—*Slidaside* is the correct hardware. Doors so equipped slide around the corner, flat against the wall.

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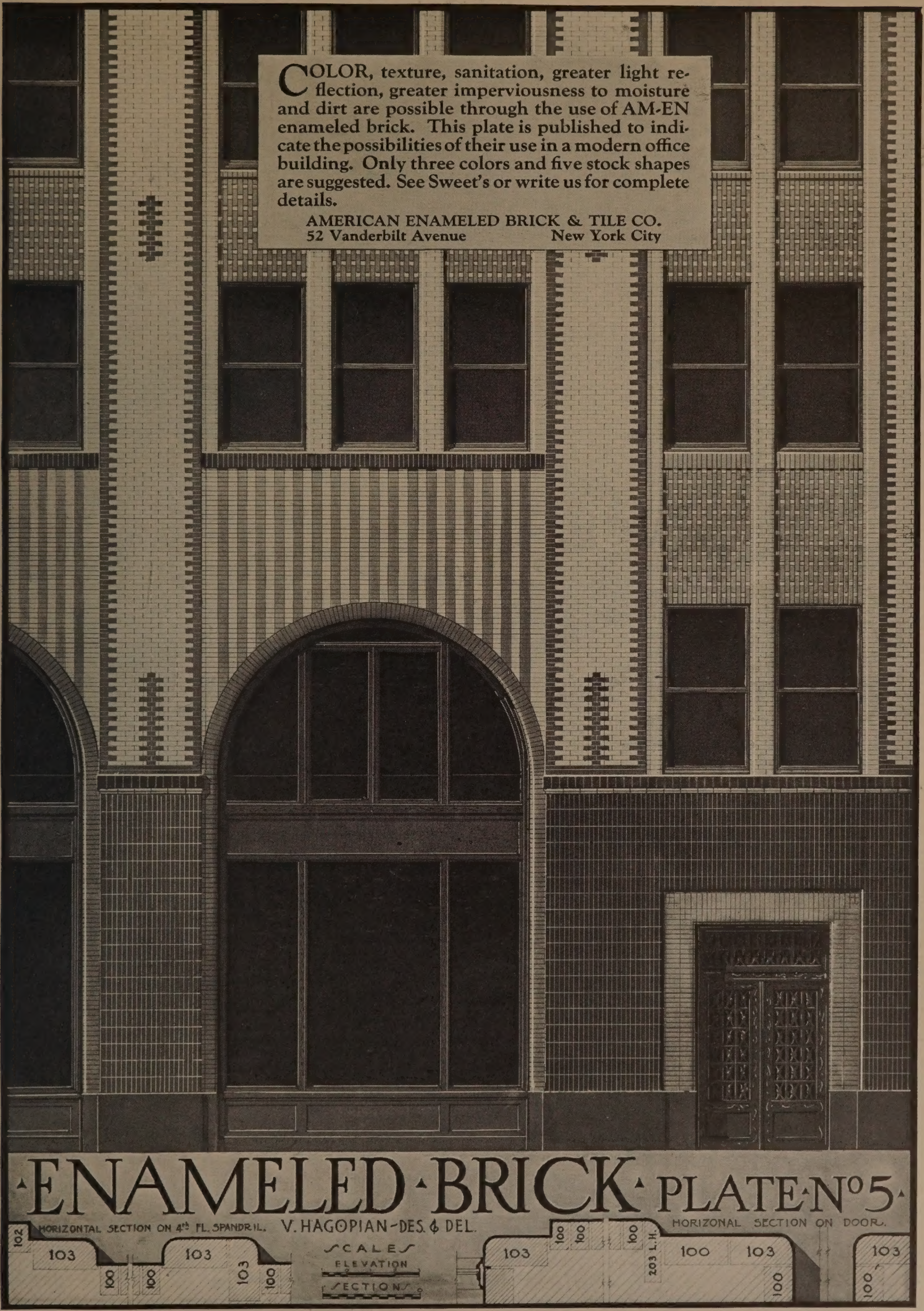
(1141-a)



COLOR, texture, sanitation, greater light reflection, greater imperviousness to moisture and dirt are possible through the use of AM-EN enameled brick. This plate is published to indicate the possibilities of their use in a modern office building. Only three colors and five stock shapes are suggested. See Sweet's or write us for complete details.

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52 Vanderbilt Avenue New York City

Copies of these plates in folio will be mailed upon request.

Volume XLV THE ARCHITECTURAL FORUM Number 5
Published Monthly by Rogers & Manson Company, 383 Madison Avenue, New York, N. Y. Yearly Subscription: U. S. A., Insular Possessions and Cuba, $6. Canada, $6.75. Foreign Countries in the Postal Union, $7.50. Single copies, 60 cents. Entered as Second Class Matter at the Post Office, New York, N. Y., under the Act of March 3, 1879.

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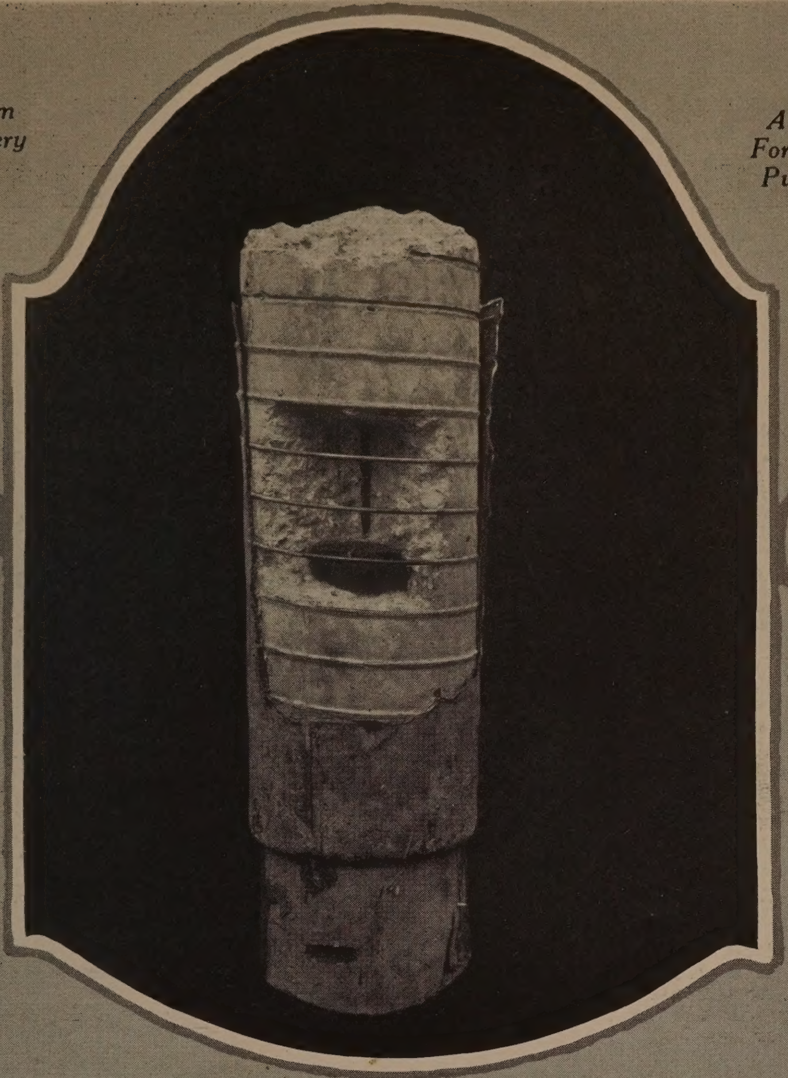

Note the concrete section is poured into a spirally reinforced steel shell left in the ground.

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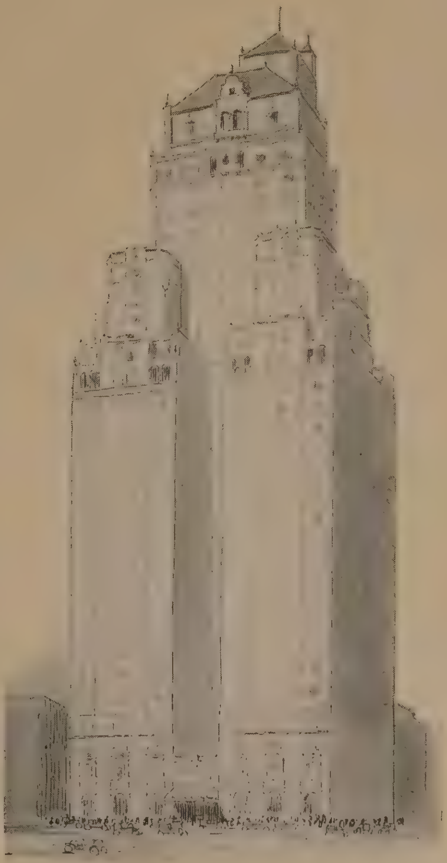

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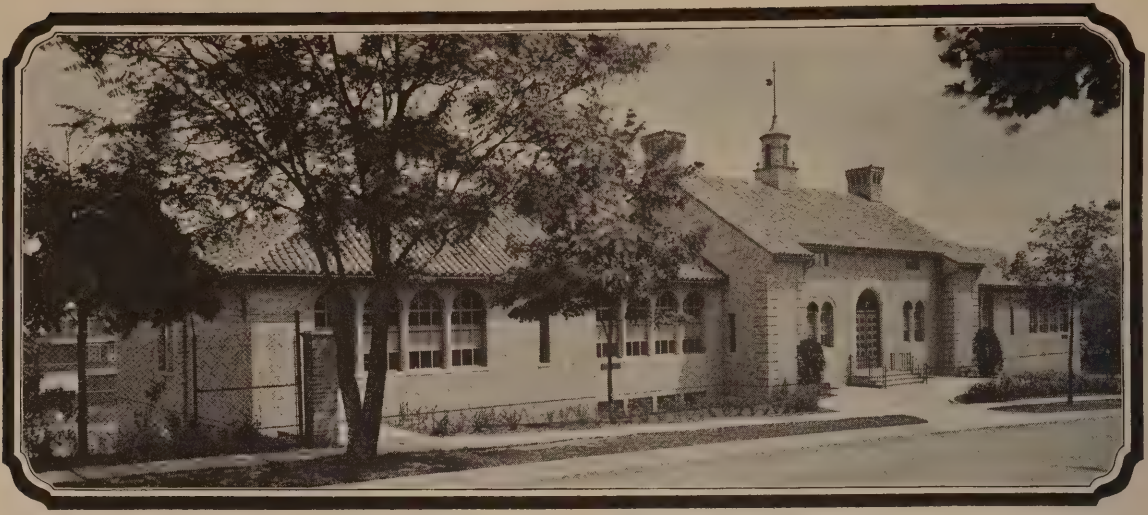

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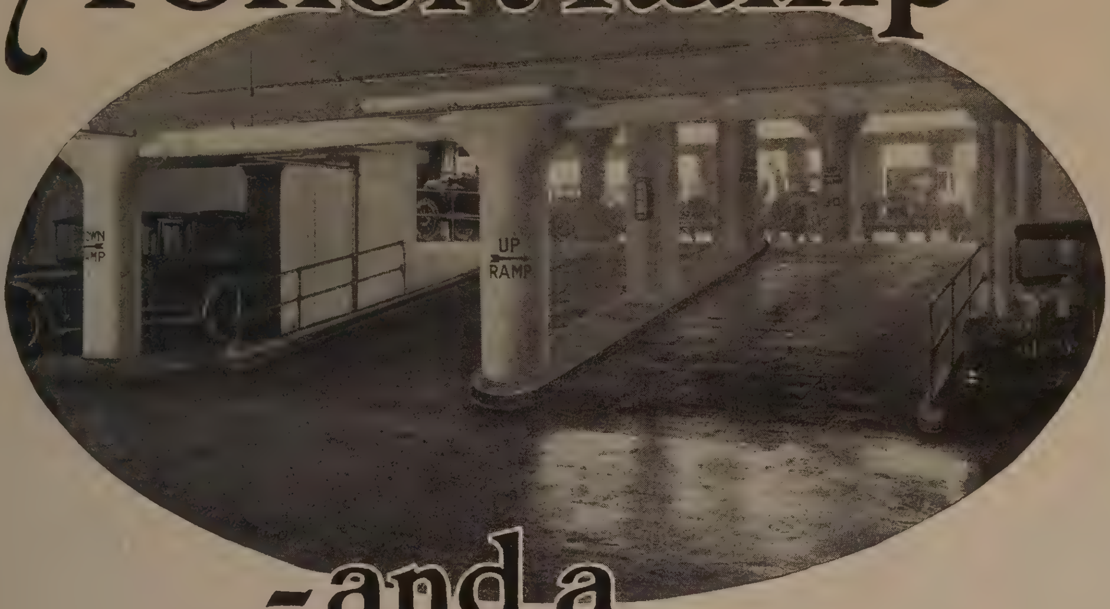

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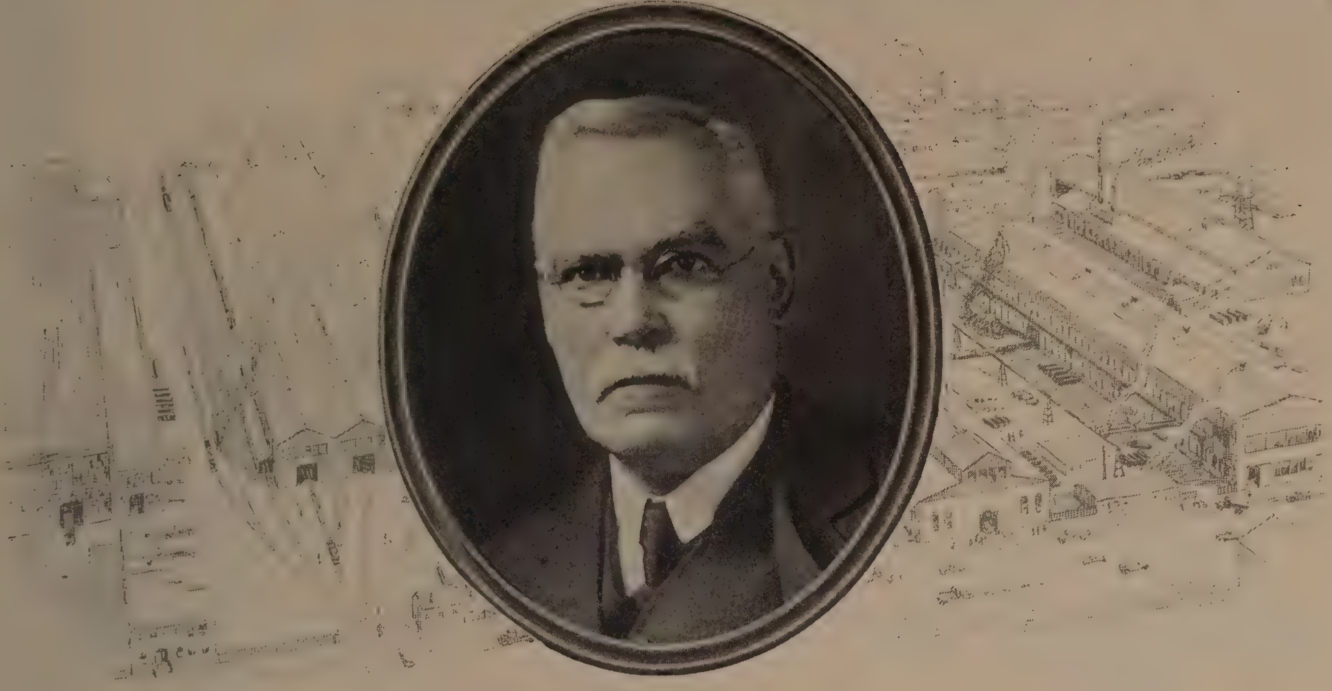

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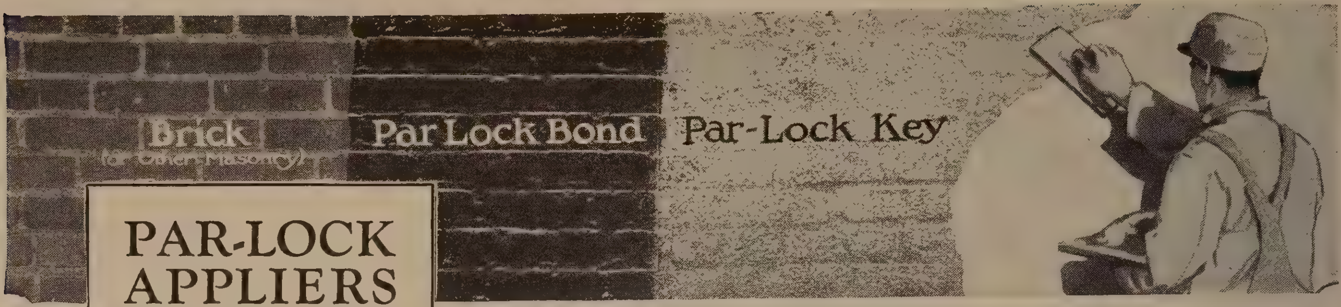

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$2,400
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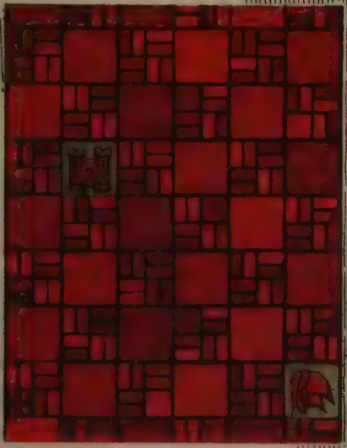

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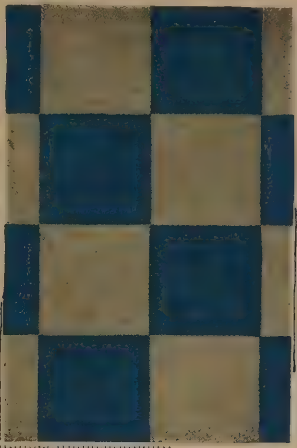

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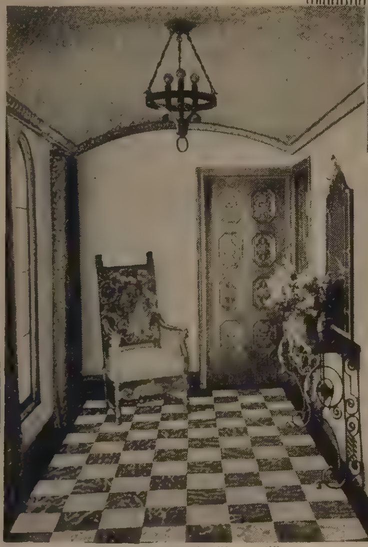

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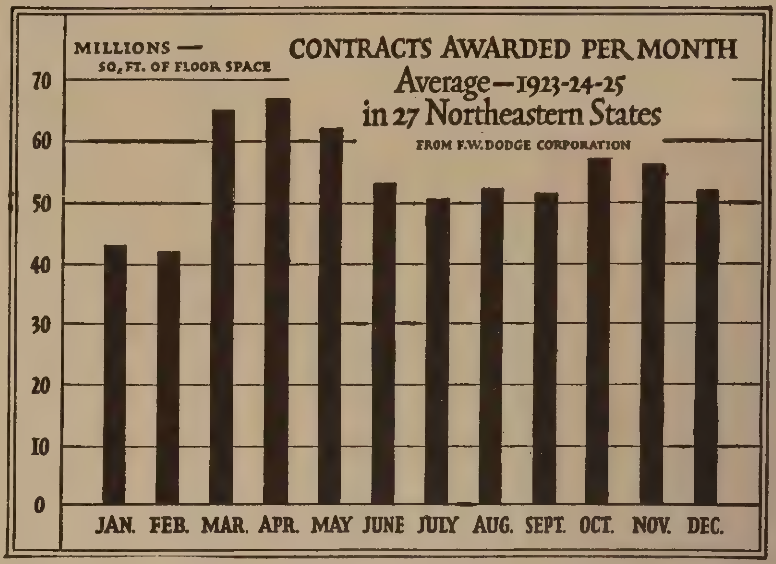
Armstrong Cork Company, Linoleum Division, Lancaster, Pennsylvania

Even in the north, construction work put under contract now continues in large volume throughout the year. In the dead of winter awards are two-thirds as great as at the spring peak. The high fall awards are strong evidence that winter construction pays, as they must largely represent work to be carried on through the cold months.



No Need to Wait Until Spring

BUILDING construction is now carried on throughout the winter as successfully as in any other season.

Think what the quicker occupancy of these winter-built structures means to their owners! If you need a new building, don't wait until spring. Start plans now for winter construction.

And use concrete for speed and economy. It will pay you.

Write nearest office listed below for booklets on "Winter Construction." There is no obligation

PORTLAND CEMENT ASSOCIATION

A National Organization to Improve and Extend the Uses of Concrete

Atlanta
Birmingham
Boston
Chicago
Columbus
Dallas
Denver
Des Moines
Detroit
Indianapolis
Jacksonville
Kansas City
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Los Angeles
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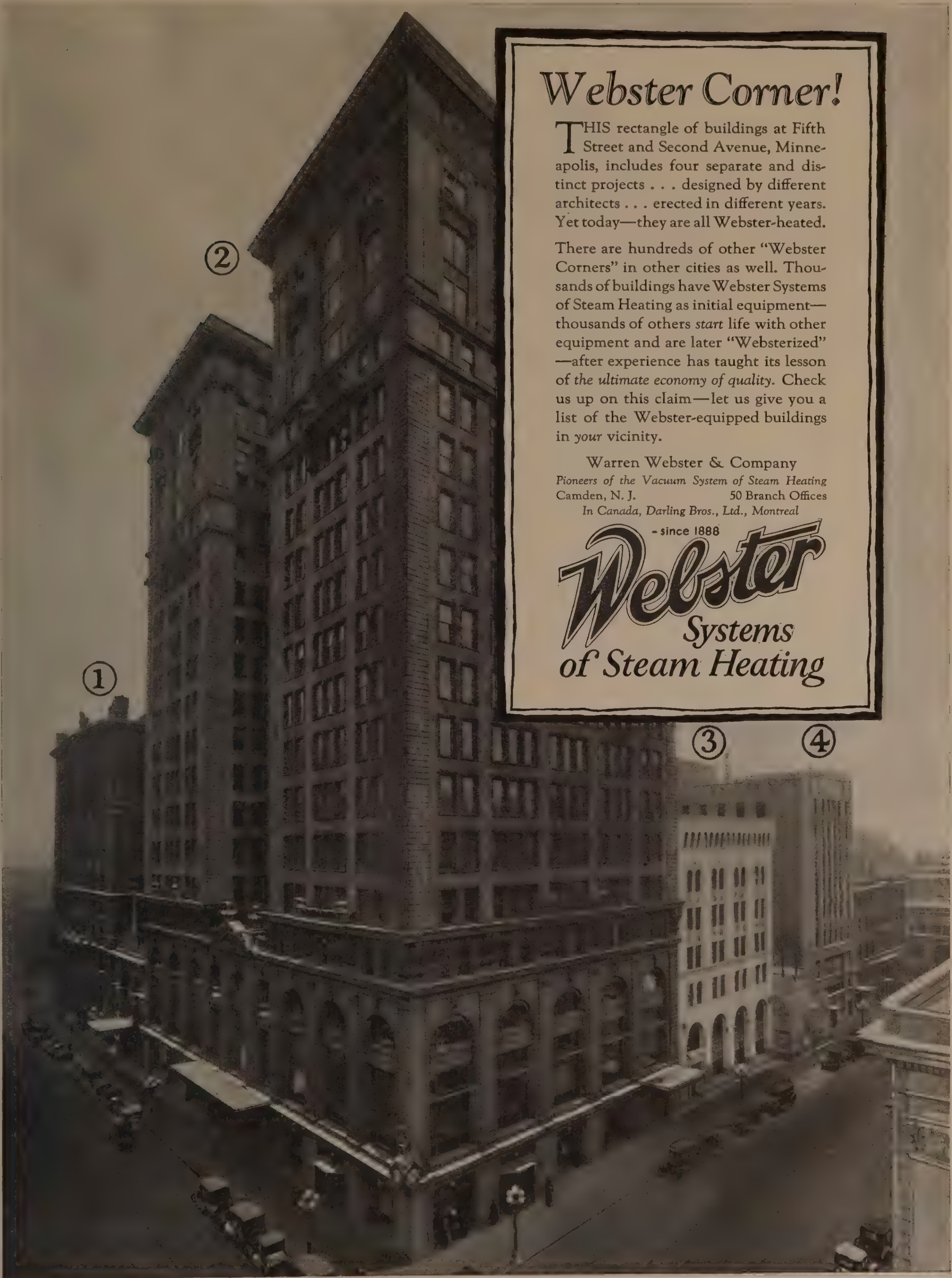
Parkersburg
Philadelphia
Pittsburgh
Portland, Oreg.
Richmond, Va.
Salt Lake City
San Francisco
Seattle
St. Louis
Vancouver, B. C.
Washington, D. C.



Webster Corner!

THIS rectangle of buildings at Fifth Street and Second Avenue, Minneapolis, includes four separate and distinct projects . . . designed by different architects . . . erected in different years. Yet today—they are all Webster-heated.

There are hundreds of other "Webster Corners" in other cities as well. Thousands of buildings have Webster Systems of Steam Heating as initial equipment—thousands of others *start* life with other equipment and are later "Websterized"—after experience has taught its lesson of *the ultimate economy of quality.* Check us up on this claim—let us give you a list of the Webster-equipped buildings in *your* vicinity.

Warren Webster & Company
Pioneers of the Vacuum System of Steam Heating
Camden, N. J. 50 Branch Offices
In Canada, Darling Bros., Ltd., Montreal

- since 1888
Webster
Systems
of Steam Heating

(1) First National Soo Line Building—Erected 1915; Websterized 1925. Robert W. Gibson, Architect and Engineer, New York City. . . . (2) New York Life Building—Erected 1896; Websterized 1923. . . . (3) Thorp Brothers Building—Erected 1924; Webster-equipped when new. Frederick Kees, Architect and Engineer, Minneapolis. Charles Wilkins & Company, Heating Contractors, Minneapolis. . . . (4) Hennepin County Savings Bank Building—Erected 1923; Webster-equipped when new. Fallows & Huey, Architects and Engineers, Minneapolis. Hineline & Company, Heating Contractors, Minneapolis.

The Beth Israel Hospital, New York City, one of the most recent Pyrono installations.

Louis Allen Abramson, Architect; G. Richard Davis Co., General Contractors.

The Wood Veneered Door with the Fireproof Core!

Because the *Pyrono Fireproof Door* possesses rare outward beauty that is restful to the senses . . . .

Because its asbestos-sheathed core makes it an impassable barrier to fire . . . .

Because in daily use it keeps its shape and therefore operates noiselessly . . . .

—it has been selected for some of the most notable installations in the hospital world.

Details and estimates on request.

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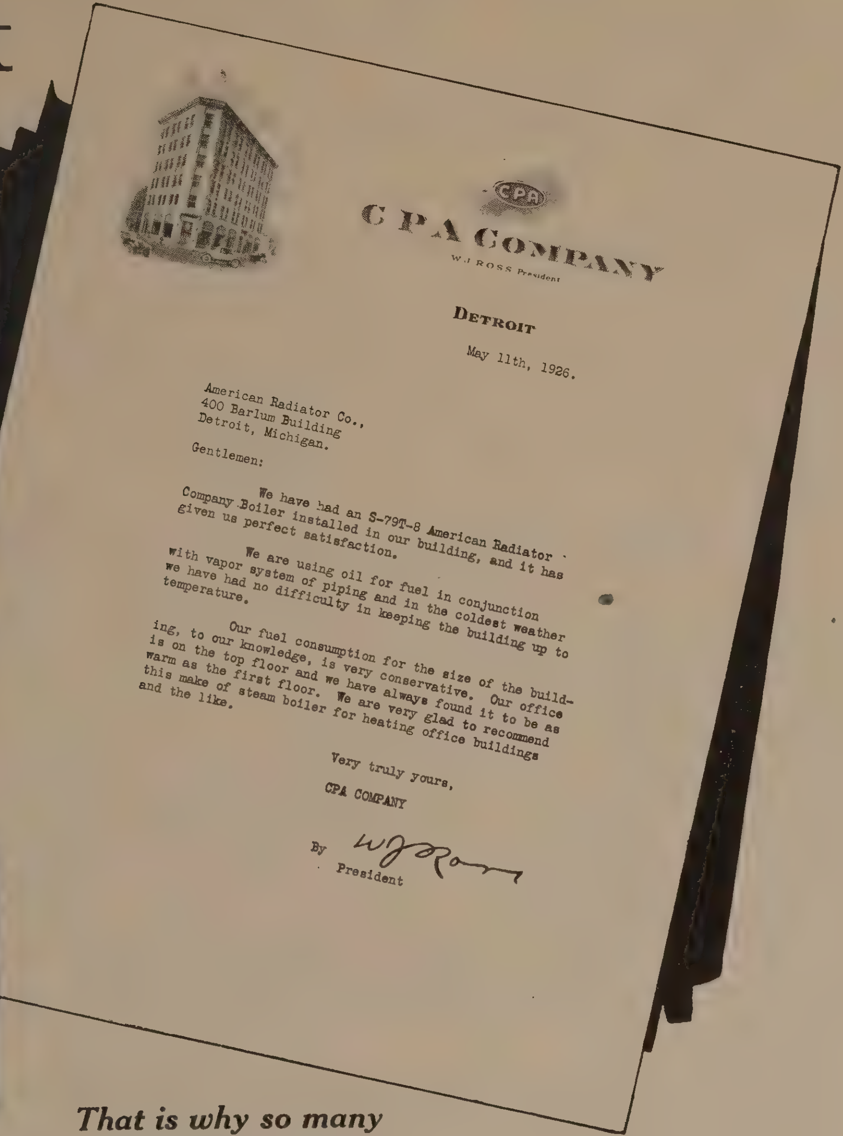
MADE BY AMERICA'S OLDEST VENEERED DOOR SPECIALISTS

They keep the building warm—
They save fuel—
They build reputations for the architect



C P A COMPANY
W. J. ROSS President

DETROIT

May 11th, 1926.

American Radiator Co.,
400 Barlum Building
Detroit, Michigan.

Gentlemen:

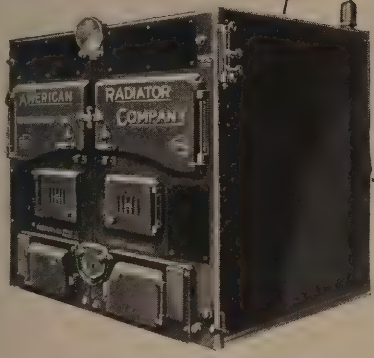
We have had an S-79T-8 American Radiator Company Boiler installed in our building, and it has given us perfect satisfaction.

We are using oil for fuel in conjunction with vapor system of piping and in the coldest weather we have had no difficulty in keeping the building up to temperature.

Our fuel consumption for the size of the building, to our knowledge, is very conservative. Our office is on the top floor and we have always found it to be as warm as the first floor. We are very glad to recommend this make of steam boiler for heating office buildings and the like.

Very truly yours,
CPA COMPANY

By W J Ross
President



79" Ideal Water Tube Boiler

That is why so many architects specify

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Makers of IDEAL BOILERS and AMERICAN RADIATORS and other products for heating, ventilating and refrigerating

"Before we accept a loan we insist on rustless metals"

–S. W. Straus & Co.

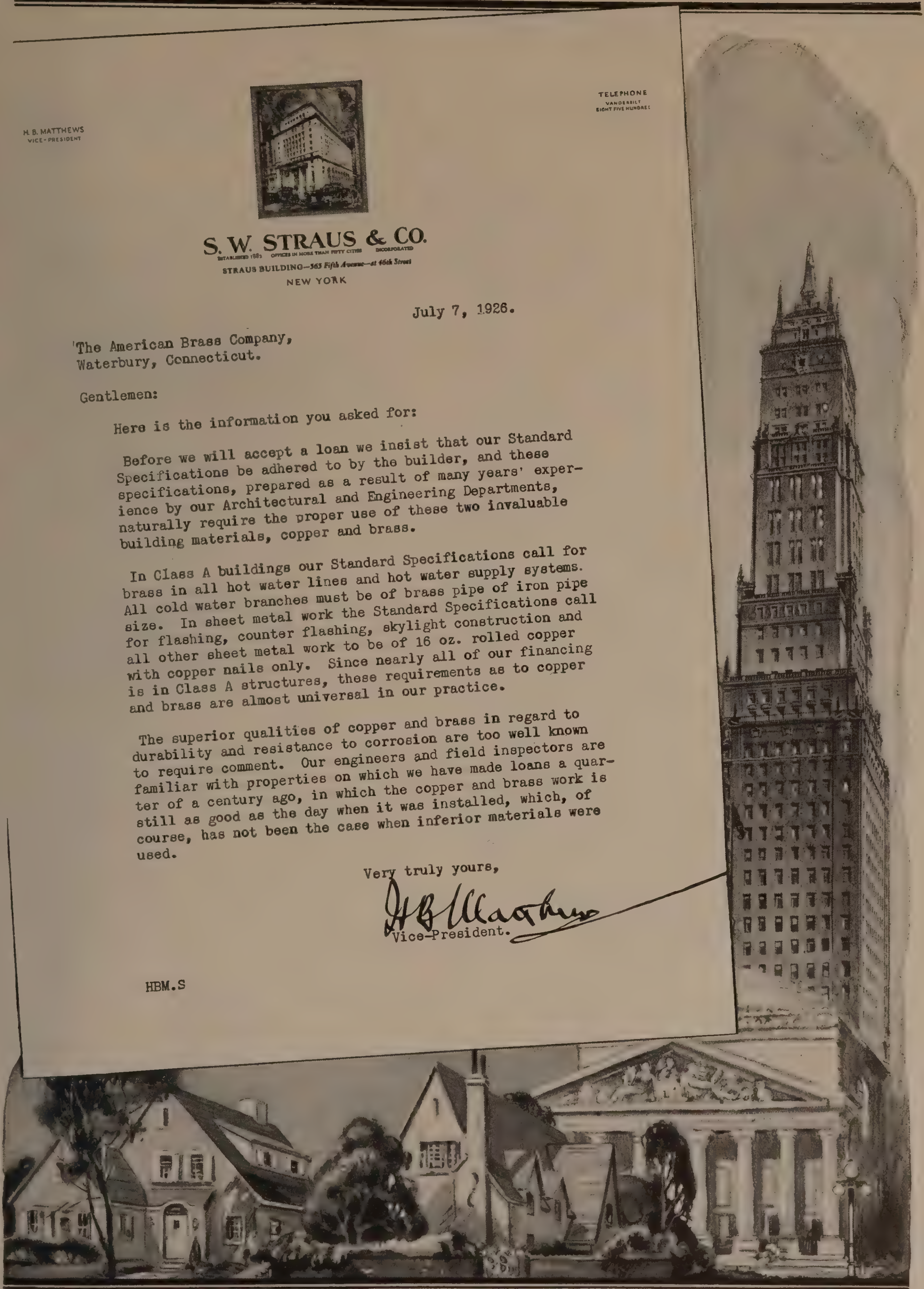
THE letter from Mr. H. B. Matthews, Vice-President, S. W. Straus & Co., reproduced on the following page, shows very clearly that the use of copper, brass and bronze conforms not only to the highest standards of building construction, but to the accepted principles of sound mortgage financing as well.

The architectural profession is thoroughly familiar with the durability, low depreciation, and minimum maintenance costs obtained through the use of guaranteed Copper, Brass and Bronze.

The manufacturers of Anaconda Copper, Brass and Bronze, have mill-trained representatives in the principal cities who are available for consultation on all problems relating to the use of rustless metals in building construction.

THE AMERICAN BRASS COMPANY
GENERAL OFFICES: WATERBURY, CONNECTICUT
Offices and Agencies in Principal Cities
Canadian Mill: ANACONDA AMERICAN BRASS LTD., New Toronto, Ont.

ANACONDA COPPER
BRASS ANACONDA from mine to consumer BRONZE



H. B. MATTHEWS
VICE-PRESIDENT

TELEPHONE
VANDERBILT
EIGHT FIVE HUNDRED

S. W. STRAUS & CO.
ESTABLISHED 1882 OFFICES IN MORE THAN FIFTY CITIES INCORPORATED
STRAUS BUILDING—565 Fifth Avenue—at 46th Street
NEW YORK

July 7, 1926.

The American Brass Company,
Waterbury, Connecticut.

Gentlemen:

Here is the information you asked for:

Before we will accept a loan we insist that our Standard Specifications be adhered to by the builder, and these specifications, prepared as a result of many years' experience by our Architectural and Engineering Departments, naturally require the proper use of these two invaluable building materials, copper and brass.

In Class A buildings our Standard Specifications call for brass in all hot water lines and hot water supply systems. All cold water branches must be of brass pipe of iron pipe size. In sheet metal work the Standard Specifications call for flashing, counter flashing, skylight construction and all other sheet metal work to be of 16 oz. rolled copper with copper nails only. Since nearly all of our financing is in Class A structures, these requirements as to copper and brass are almost universal in our practice.

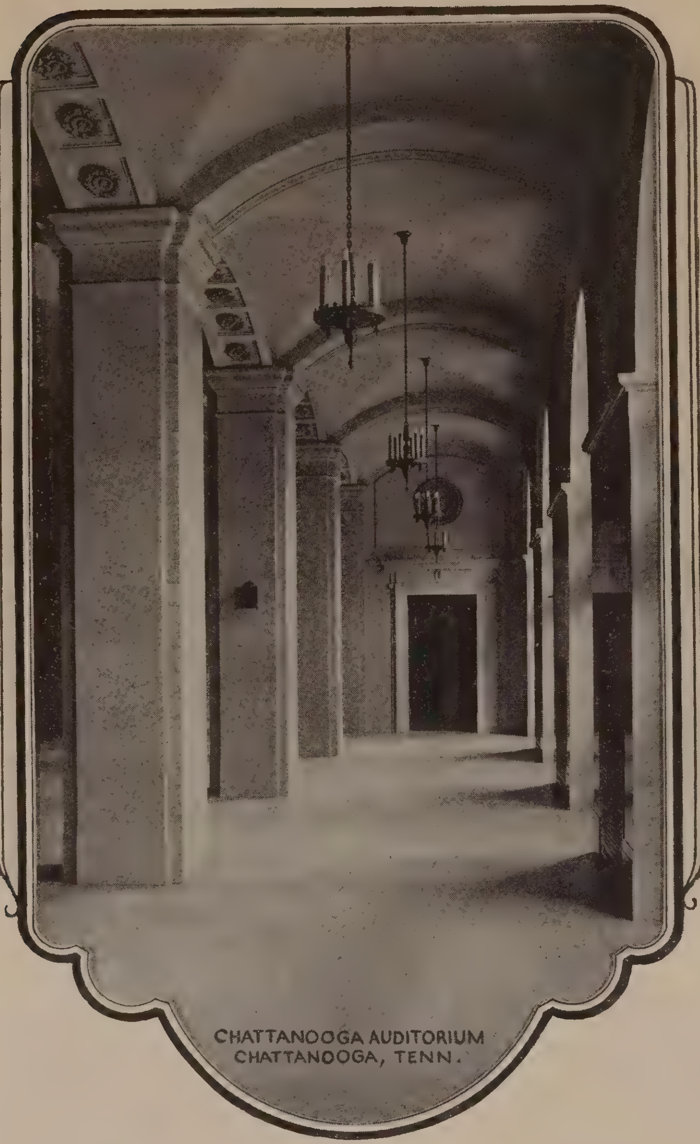
The superior qualities of copper and brass in regard to durability and resistance to corrosion are too well known to require comment. Our engineers and field inspectors are familiar with properties on which we have made loans a quarter of a century ago, in which the copper and brass work is still as good as the day when it was installed, which, of course, has not been the case when inferior materials were used.

Very truly yours,

H B Matthews
Vice-President.

HBM.S

ENDURING BEAUTY *at* REASONABLE COST



CHATTANOOGA AUDITORIUM
CHATTANOOGA, TENN.

The cost of the beautiful Appalachian Tennessee Interior Marbles is not only lower than architects might expect, but the first cost is the *final* cost.

Appalachian Marble permanently retains all its original beauty and *never* requires waxing nor other expensive refinishing. It is an exceptional example of how lasting beauty and real economy may be secured by the architect.

The reason Appalachian Tennessee Marble is so reasonable in cost is simply because of the great production and economical production methods of the huge Appalachian quarries and mills and because all Appalachian marble waste is utilized.

Architects are invited to send, without obligation upon their part, plans and specifications of projects in which they are interested, for prompt, accurate interior marble estimates.

FOREIGN MARBLES

Our close connections with leading quarries abroad enable the Appalachian mills to turn out the finest foreign marbles at a very substantial saving.

PRODUCERS
Exclusively
of
SINCERE
MARBLE

APPALACHIAN MARBLE COMPANY
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"Look at That Crac
What's back of the plaster?
This is a Better Plastering Job"
BETTER PLASTERING for MODERN HOMES
Lath Costs Less than Re Decorati

When The Figures Come In–

—and your client begins to wonder where he can cut; this book "Better Plastering for Modern Homes" can be a real help to you. It is a clean, straightforward presentation of the real economy and fire-safety effected through the use of metal lath in homes. All the facts are arranged in such a manner that the uninitiated can grasp them quickly and easily.

Frankly, it is written for your client—not for you—but a copy or two in your files will assist you in maintaining a better grade of construction through that trying period —when the figures come in.

May we send you a copy or two?

THE NATIONAL COUNCIL FOR BETTER PLASTERING
1305 Madison Square Building, Chicago, Ill.

Natures Permanent Mineral Colors

Made Since 1887

Made Since 1887

Color Confessions!

LET'S both make an admission. We will admit, for our part, that many atrocities have been committed with mortar colors. They hurt our sensibilities as much as they hurt yours!

Now for your admissions: Brickwork made up with ordinary gray mortar is cold; and it smacks of garish newness. Mortar tinted with Colonial Buff takes on a mellowness that age alone can impart to uncolored mortar. The effect of other brickwork is improved by use of brown, chocolate, olive green, red and black pigments.

There are many pleasing and worth-while possibilities in the coloring of mortar.

Color samples of Clinton Mortar Colors and complete information sent upon request.

Clinton Metallic Paint Co.
411 CLINTON ROAD
CLINTON, N. Y.

Clinton Mortar Colors

CLINTON METALLIC PAINT COMPANY CLINTON N. Y.

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Architect, Graduate Student, *or* Teacher *of* Architecture

For permanent position, as associate editor of one of the leading architectural magazines.

Requires complete knowledge of architectural design, engineering and economics and writing ability. Also, complete time and residence in New York.

Replies will be strictly confidential and should contain full information. This is a most unusual opportunity for a man of reflective personality and the salary will be commensurate. Address,

Grand Central Station
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For every need and purpose

Moulding's Floors

UNSURPASSED for continuous service, long wear and dependability.

T-M-B FLOORING. A resilient, wear-resisting long-life floor. Supplied in a variety of rich colors. Sanitary, easily cleaned, deadens foot-traffic noises. Quickly and seamlessly repaired.

MOULSTONE. A remarkable flooring that can be scored to resemble tile. Furnished in a variety of colors. Permanent, fireproof, germ-proof, sanitary—an ideal flooring to be used for many purposes. Can be applied over old or new wood or cement.

MOULTYLE. A tile floor designed to meet below-grade, extremely humid conditions. Can be laid over any smooth cement or wood floor. Very durable and resistive to water. Supplied in beautiful color combinations.

MOULDING'S DANCE FLOOR. To be laid over wood or cement to supply ideal surfaces for play or dancing. Extremely servicable for the interior or exterior.

We offer to solve your floor problems quickly and without obligation on your part. Our service is at your command.

THOS. MOULDING BRICK COMPANY
60 Years of Responsibility

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Grand Central Terminal Bldg.
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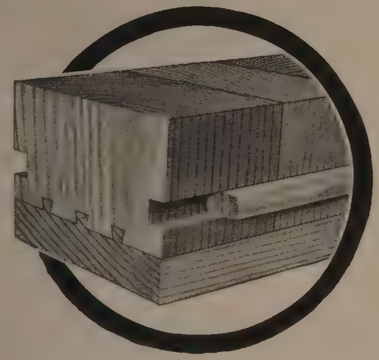
T-M-B FLOORING

Bloxonend Floors

Make money-making Easy



Bloxonend is furnished in 8 ft. flooring lengths. The tough end grain forms the wearing surface.

The United States Mint, Philadelphia, illustrated above, recently installed 15,000 square feet of Bloxonend Flooring.

Bloxonend is making money-making easy

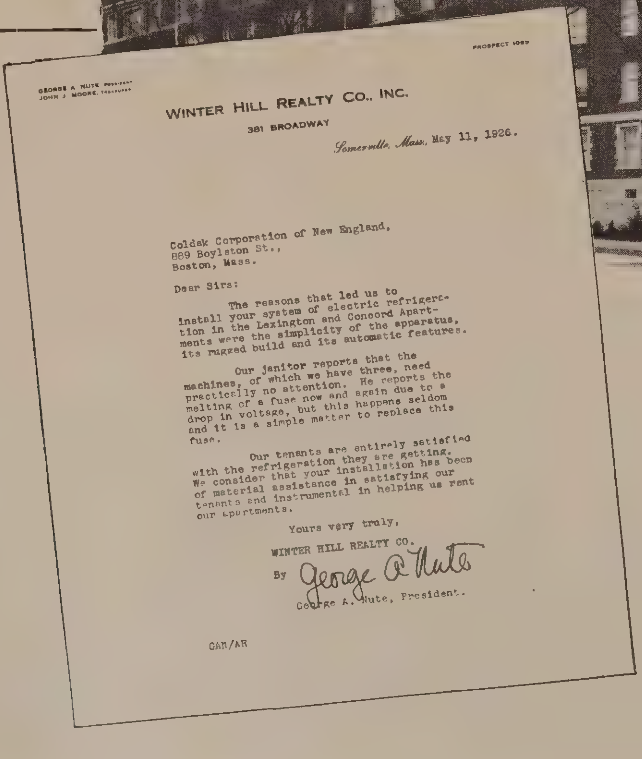
by adding to the comfort of hundreds of workers, men and women, who must stand and walk over the floors continually. These employees have been quick to mark the wonderful difference in the "feel" of Bloxonend as compared with the old concrete it replaced. Small wheeled trucks carrying burdensome loads of bullion, bars and coins are moved over Bloxonend's surface with minimum effort. Noise, vibration, and the expense and bother of floor repairs eliminated.

Specify smooth, durable Bloxonend on your next school or industrial job.
Sample and literature on request

CARTER BLOXONEND FLOORING COMPANY
KANSAS CITY, MISSOURI
Branch Offices in Principal Cities

CARTER
Lays Smooth **BLOXONEND FLOORING** *Stays Smooth*

"We selected Coldak because of its *automatic* features"



GEORGE A. NUTE, PRESIDENT
JOHN J. MOORE, TREASURER

PROSPECT 1089

WINTER HILL REALTY CO., INC.
381 BROADWAY

Somerville, Mass., May 11, 1926.

Coldak Corporation of New England,
889 Boylston St.,
Boston, Mass.

Dear Sirs:

The reasons that led us to install your system of electric refrigeration in the Lexington and Concord Apartments were the simplicity of the apparatus, its rugged build and its automatic features.

Our janitor reports that the machines, of which we have three, need practically no attention. He reports the melting of a fuse now and again due to a drop in voltage, but this happens seldom and it is a simple matter to replace this fuse.

Our tenants are entirely satisfied with the refrigeration they are getting. We consider that your installation has been of material assistance in satisfying our tenants and instrumental in helping us rent our apartments.

Yours very truly,
WINTER HILL REALTY CO.
By George A. Nute
George A. Nute, President.

GAN/AR

The Lexington and Concord Apartments, Somerville, Mass. Electric Refrigeration supplied to all the apartments by the Coldak Central Plant System. Arthur H. Bowditch, architect, Boston, Mass.

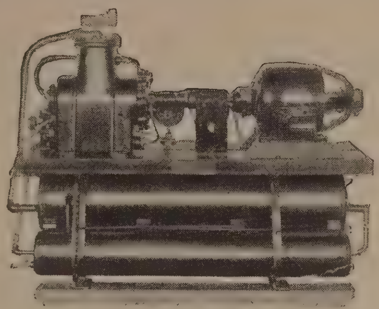
Coldak needs no watchman . . . no engineer no constant tinkering

Every apartment gets perfect electric refrigeration automatically

Coldak Electric Refrigeration was chosen for the Lexington and Concord Apartments because of "the simplicity of the apparatus—and its *automatic* features.

It serves as many apartments as the elaborate central plant system and has the *operating* advantages of a small, household machine. No other system has these advantages. No other system is like Coldak.

Compare them—Brine circulating systems have the central plant advantages, but they need a watchman or engineer on the job constantly. They usually cost several times as much as a Coldak installation. They require insulated pipe lines. They are more expensive to operate. And the life of such systems may be limited because of corrosive refrigerants used.



Individual machines in each apartment cannot be compared with Coldak, any more than a heater in each apartment could be compared with a central plant heating system.

Similar type systems can supply only from four to six apartments from one machine. *One* Coldak machine in the basement supplies perfect, *automatic* electric refrigeration to as many as 25 apartments. And the system can be expanded indefinitely—two machines for 50 apartments, three machines for 75 apartments, and so on. When two or more machines are used, they may be cross-connected so that there can never be any interruption of service.

Coldak is the *one* ideal system of electric refrigeration for apartment houses. It requires no attention other than an occasional oiling. It uses less electric current. It is easy to install. The pipes are small and require no insulation. Complete information on the Coldak System of electric refrigeration has been put in booklet form. The coupon will bring you a copy.

COLDAK
CORPORATION
Eight West Fortieth Street New York City

Coldak is the most rugged electric refrigeration machine made. Simple, too! It has no belts, pulleys, pistons, crankshafts, reduction gears or reciprocating parts. Two sets of rotary gears do the job. Fewer parts to get out of order and need attention.

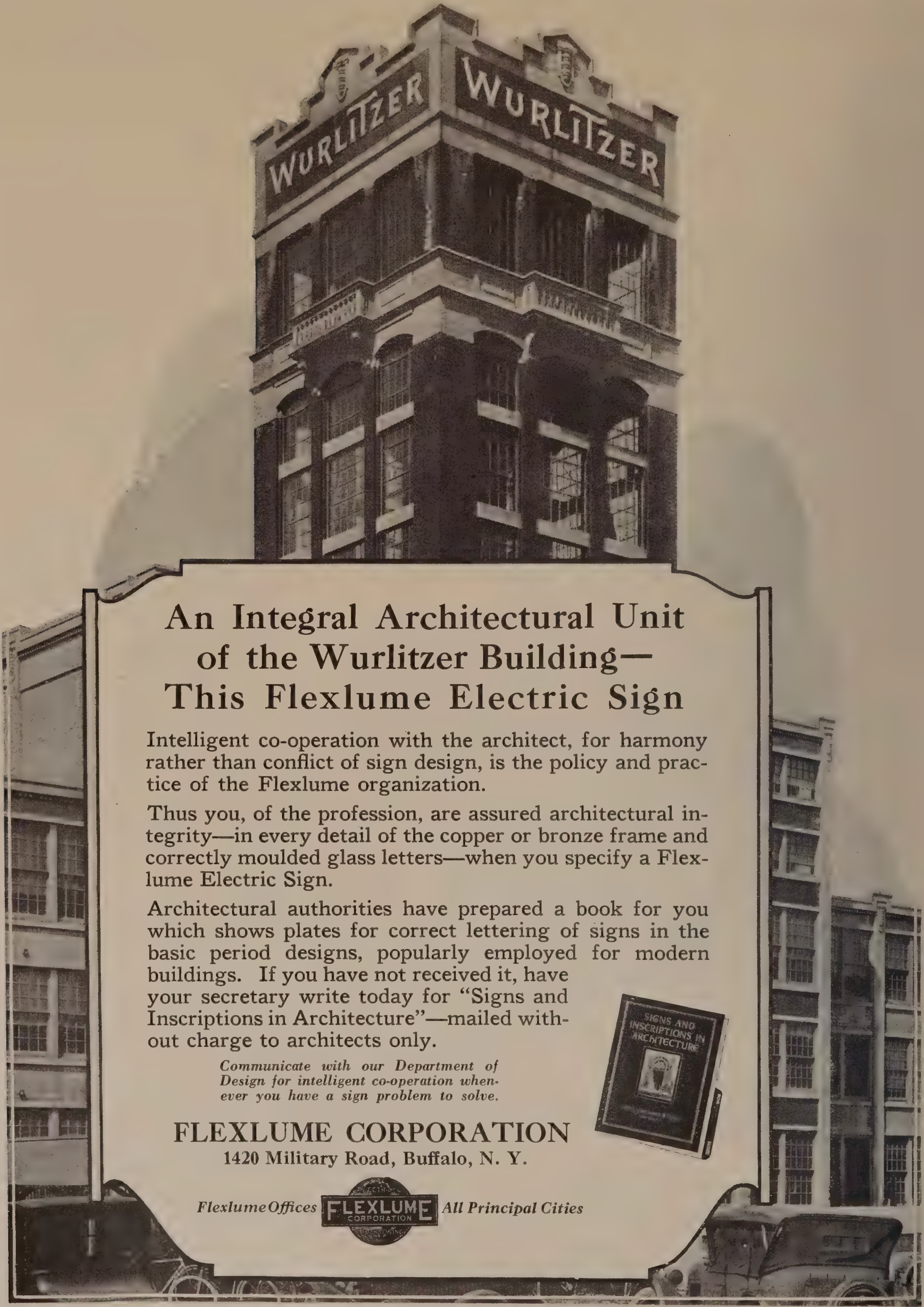
© 1926, C. C.

A.F. 11-5-26

Coldak Corporation,
8 West Fortieth Street,
New York City.

Please send me additional information about the Coldak System of Electric Refrigeration, for apartment houses.

Name
Street
City State



An Integral Architectural Unit of the Wurlitzer Building— This Flexlume Electric Sign

Intelligent co-operation with the architect, for harmony rather than conflict of sign design, is the policy and practice of the Flexlume organization.

Thus you, of the profession, are assured architectural integrity—in every detail of the copper or bronze frame and correctly moulded glass letters—when you specify a Flexlume Electric Sign.

Architectural authorities have prepared a book for you which shows plates for correct lettering of signs in the basic period designs, popularly employed for modern buildings. If you have not received it, have your secretary write today for "Signs and Inscriptions in Architecture"—mailed without charge to architects only.

Communicate with our Department of Design for intelligent co-operation whenever you have a sign problem to solve.

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Flexlume Offices FLEXLUME CORPORATION *All Principal Cities*

For Homes Too ~ ~

MEN and women are placing increasing emphasis upon fire safety as a necessary element in the modern home. Consequently GF Steel Joists have won high favor with architects for home design. Architects recognize that GF Steel Joists in home construction mean more adequate fire protection, greater rigidity, and soundproofness as well. They recognize further that the cost item to their clients for this better construction, is very little more than is required for building with ordinary combustible material. Write for Handbook and Data on GF Steel Joists.

GF Steel Joists

for Light Occupancy Buildings

Other GF Products

GF Steel Tile, GF Duplex Steel Bridging, GF Steel Channels, GF Peds, GF Key Lath, GF Self-Sentering, GF Corner Beads, GF Trussit, GF Expanded Metal, GF Diamond Rib Lath, GF Steel Sash, Basement and Casement Windows, GF Lintels, GF Industrial Steel Doors, GF Wire Mesh, GF Concrete Reinforcement, GF Waterproofing Compounds.

THE GENERAL FIREPROOFING BUILDING PRODUCTS
YOUNGSTOWN, OHIO

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TERRA COTTA offers unique and splendid possibilities for striking a distinctive note in American Architecture. Oriental precedent supports the use of ceramic materials for the entire exterior finish of buildings and points the way to logical motifs appropriate to western ideals and contemporary needs. Why not explore this promising field of design with its unlimited possibilities in color?

NATIONAL TERRA COTTA SOCIETY

19 West 44th Street New York, N. Y.

Here again—a couple of wasted, weary footsteps! Weary because a few folks still don't know why they tire of wasting countless footsteps like us. But, thanks to architects and Inter-Phones, there are fewer of these folks than ever. For architects know that wasted footsteps and Western Electric Inter-Phones are never found together on the same plans. Just as they knew that Inter-Phones, in saving footsteps, add to the value of any building, whether it be a bank, factory, school or an office.

I'm just another weary, wasted footstep. Just another argument for less useless walking. And another reason for Western Electric Inter-Phones because, as every architect and every wasted footstep knows, Inter-Phones are the best way to take us out of building plans. This is partly because Inter-Phones are dependable and they last. And partly because they carry a name that stands for leadership and long experience in electrical communication.

Hint for architects who want to pass these step-saving thoughts on to clients: There's always the ready help of specialists at the nearby offices of Graybar, distributors of Inter-Phones.

for WALLS

Hotel Windermere, *Chicago. Rapp & Rapp, Chicago, architects; Thompson-Starrett Company, general contractors. The Beaver American Gypsum Block that was used to a considerable extent throughout this enormous structure was furnished by Continental Fireproofing Co.*

Beaver American Gypsum Block Preferred

Leading architects in every city are specifying Beaver American Gypsum Block. Their investigations prove its uniform excellence of design and manufacture.

Now made by means of the new "Her-Born" Block Moulding Machine, Beaver American Gypsum Block is remarkably uniform in dimension and weight as it has always been in quality.

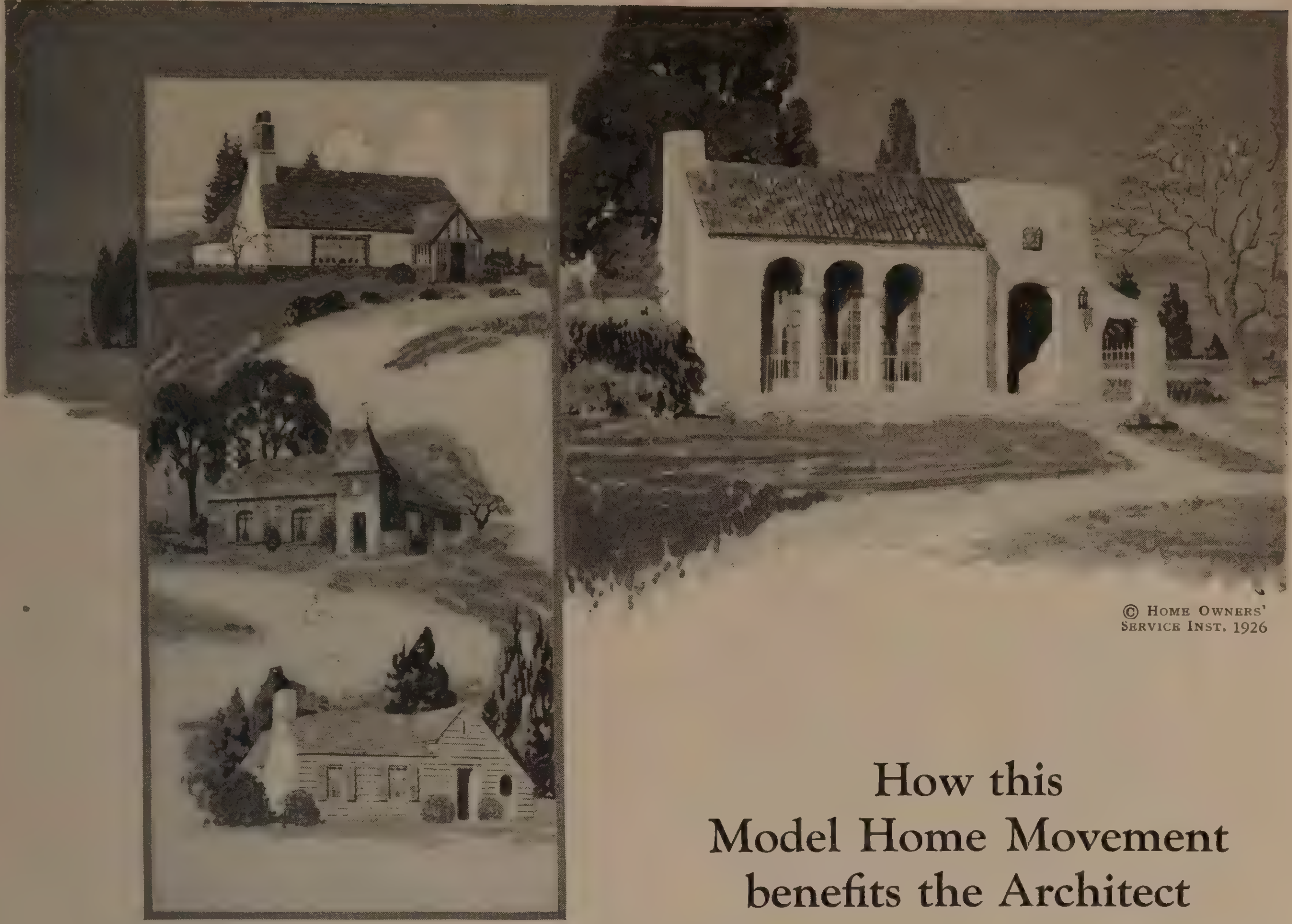
Its design follows closely all specifications of The Underwriters' Laboratories and The American Society for Testing Materials as to side wall and center web dimensions.

The materials of which it is composed are of a high grade—97 per cent pure gypsum and 2 per cent by weight special stainless fibre. For information about Beaver American Gypsum Block and Beaver American Moulding Plasters address our Department 2511.

THE BEAVER PRODUCTS CO., Inc., *Buffalo, N. Y.*

BEAVER
AMERICAN
PLASTER

467



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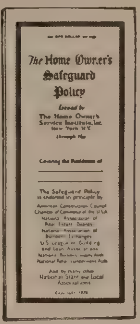
How this Model Home Movement benefits the Architect

No one realizes better than the architect the need for education of the home builder toward appreciation of better design, better equipment and better building materials.

In every one of these homes demonstrated, the fact that a registered architect designed the home is stressed to visitors. They are also shown the permanent investment value of buying only the best in equipment and material.

These products, protected by our new safeguard policy, were selected by us as standard specification, and it is through the cooperation of these manufacturers that this movement has been made possible.



The Home Owner's Safeguard Policy

Issued by
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New York N.Y.
through the

Covering the Residence of

The Safeguard Policy is endorsed in principle by
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Every architect should have this book

It gives full details about each of these model homes, in 48 pages including perspectives and floor plans. Sent free on request to every registered architect. Simply use the coupon. No obligation.

Home Owners' Service Institute, Inc.
Dept. T-25, 441 Lexington Ave., New York City

Gentlemen:
Please send me without cost or obligation, "A Manual of Home Building."

Name..

Address..

Standard specification, protected by our new Safeguard Policy—

Anaconda Brass Pipe, Copper Gutters, Leaders, Flashings and Bronze Wire for Screens	The American Brass Company
Blue Star Installation Domestic Gas Appliances	American Gas Association
Corto Radiators—Ideal Arco Boiler—Arco Hot Water Tank	American Radiator Company
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Radio Receiving Sets and Equipment	The Crosley Radio Corporation
Fenestra Casement and Basement Steel Windows	Detroit Steel Products Co.
Tontine Window Shades, Rug Anchor, Duco Finished Furniture	E. I. DuPont de Nemours & Co., Inc.
Fairfacts China Bathroom Accessories	The Fairfacts Company, Inc.
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Graybar Clothes Washer	Graybar Electric Company, Inc.
The Greater Hoover Suction Sweeper	The Hoover Company
Tiger Finish (Hydrated Lime) Walls	Kelley Island Lime & Transport Co.
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Lehigh Portland Cement	Lehigh Portland Cement Company
Long-Bell Trade-Marked Lumber and Oak Flooring	The Long-Bell Lumber Company
The Minneapolis Heat Regulator for Coal, Gas, Oil	Minneapolis Heat Regulator Co.
Natco Hollow Building Tile	National Fire Proofing Company
Dutch Boy White-Lead for Interior and Exterior Painting	National Lead Company
Miracle Doors	Paine Lumber Company, Ltd.
Richardson Multicrome Roofs	The Richardson Co.
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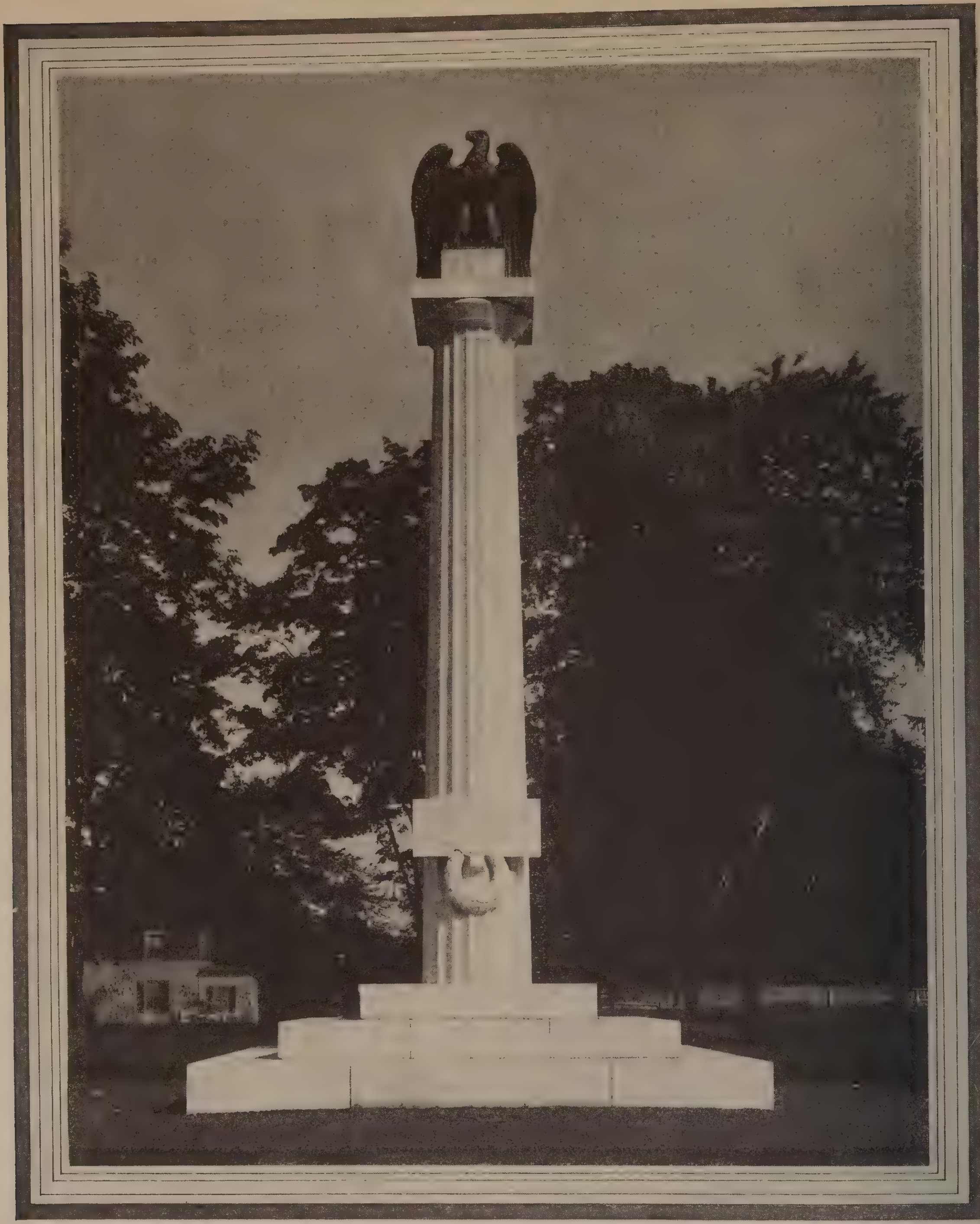
Under the supervision of

HOME OWNERS' SERVICE INSTITUTE · INC.
L. PORTER MOORE, *President*



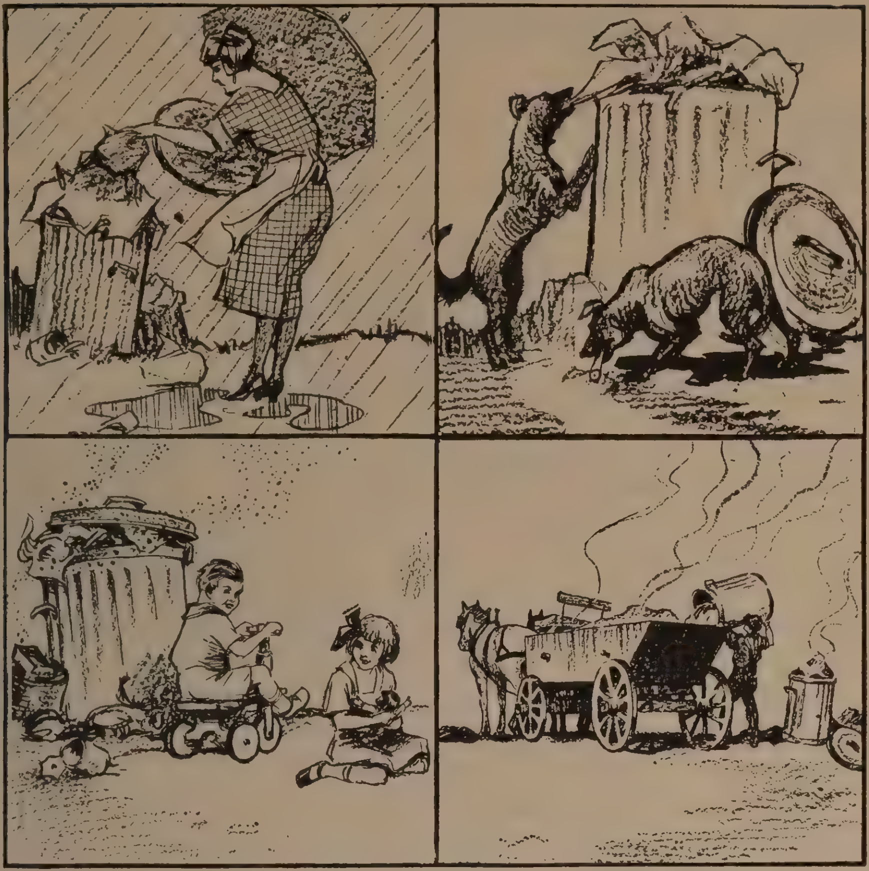
WORLD WAR MEMORIAL, RIDGEWOOD, N. J.
HENRY BACON, ARCHITECT ERECTED BY PICCIRILLI BROTHERS

A LASTING TOKEN

This shaft is erected in honor of the sons of Ridgewood who died in the World War. Being of Georgia Marble, it will stand for generations. This is believed to be the last memorial designed by Henry Bacon.

The Georgia Marble Company, Tate, Georgia; New York, 1328 Broadway; Atlanta, 511 Bona Allen Bldg.; Chicago, 456 Monadnock Bldg.

GEORGIA MARBLE



Build this out by Building this in!

THE unsightly, foul-smelling garbage can is a tiresome inconvenience to the housewife . . . frequently a nuisance to neighbors . . . a menace to health in the backyard . . . a definite expense that increases taxes.

The Kernerator has banished this travesty on sanitation—this relic of a less fortunate age—from thousands upon thousands of America's better homes, apartments, hospitals and institutions.

The Kernerator, the pioneer, flue-fed incinerator, has made garbage and waste disposal a matter of seconds—a mere "chuck-it-in-and-forget-it" operation, done right there in the kitchen.

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(Made with *standard* Universal cement)

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INSURANCE COMPANY OF NORTH AMERICA

Architects:
STEWARDSON and PAGE

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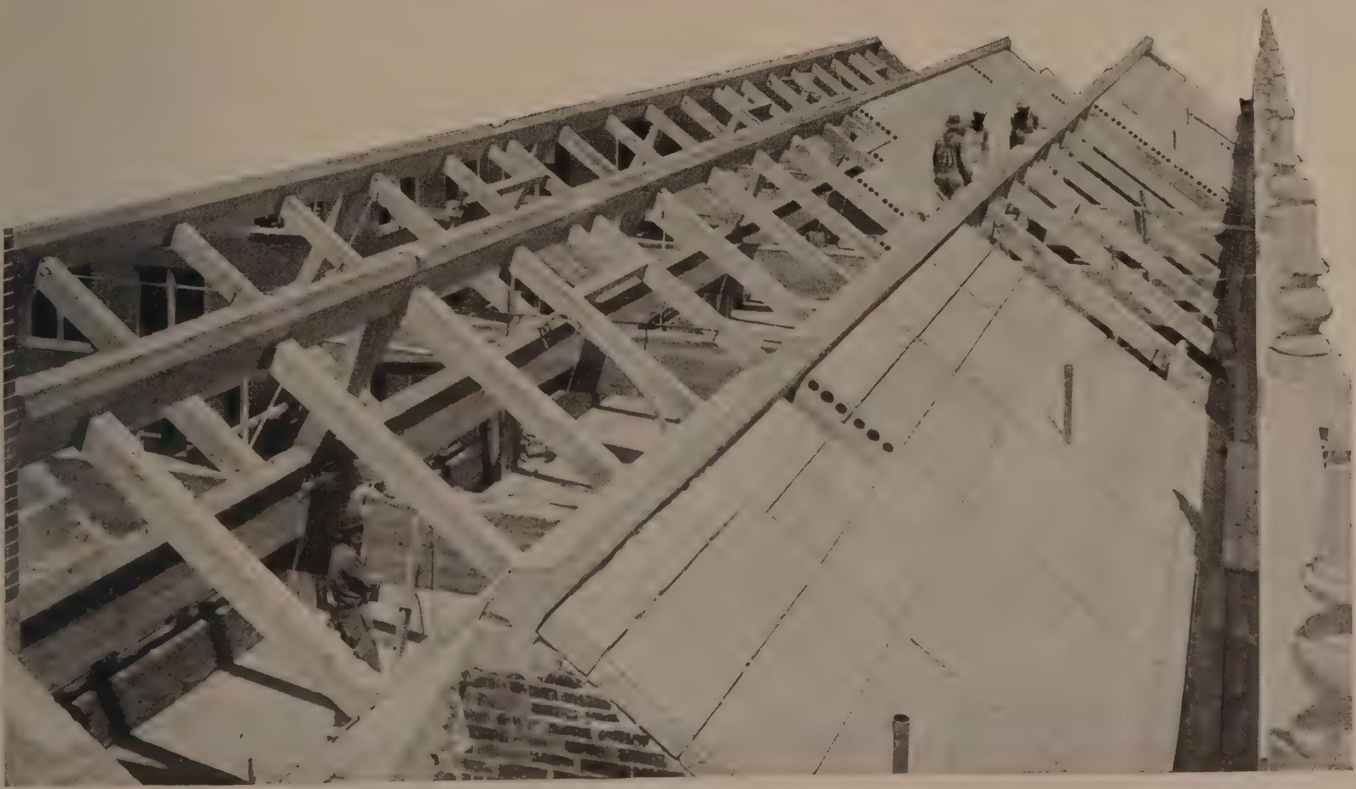

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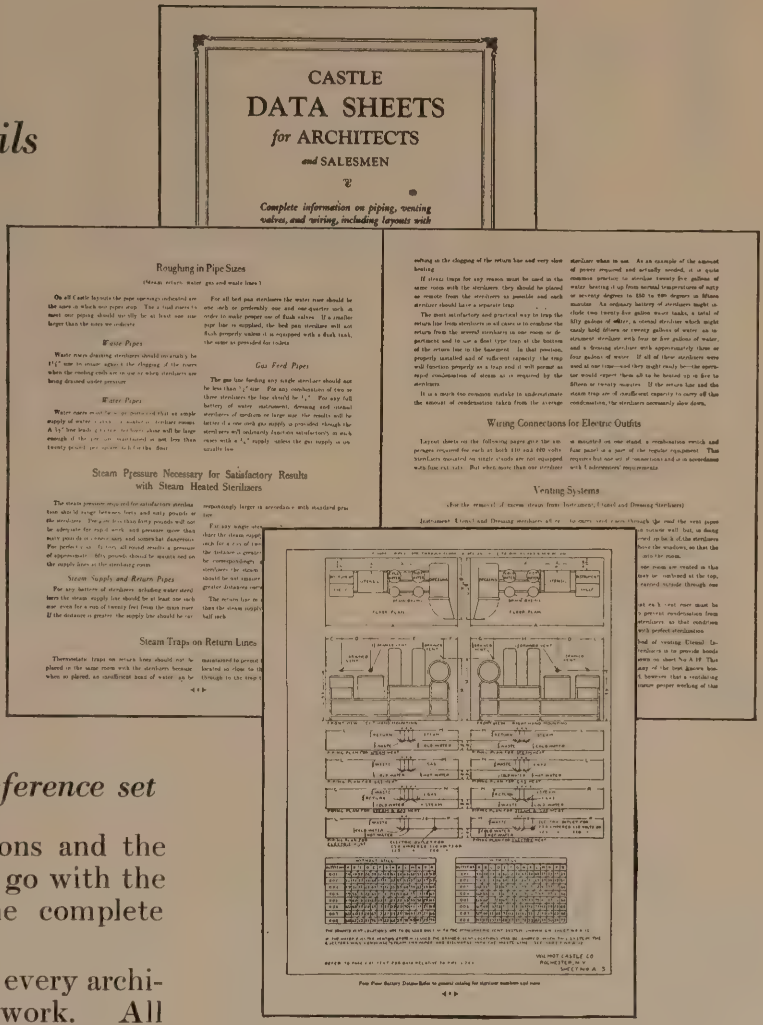

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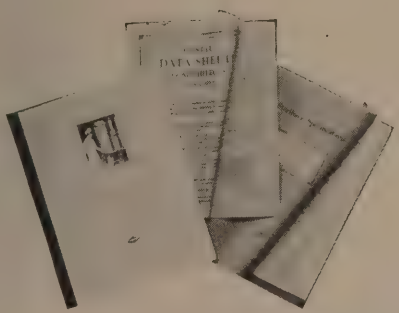

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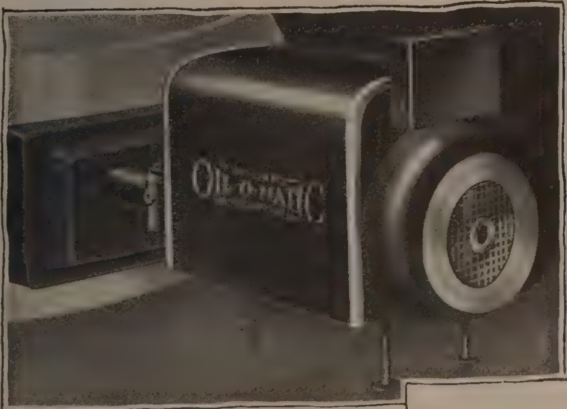

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This man has become a mighty influence for the architect—

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The finest wall finish is made of hydrated lime

SARGENT
Locks & Hardware

SARGENT HARDWARE

SCOTTISH RITE CATHEDRAL
Peoria, Illinois

Hewitt & Emerson
Architects

PROBABLY the hardware requirements for this building were more exacting than for the usual structure of ecclesiastical design. The photograph shows the multitude of lights and suggests some of the problems presented in their equipment. The doors within as well as at the entrance also demanded hardware agreeable to the Gothic style. But just the proper patterns and pieces for the entire structure were easily found in Sargent locks and hardware of solid, time-resisting bronze. Securing, besides harmony, service and security that will endure like the cathedral itself.

SARGENT & COMPANY, *Hardware Manufacturers*
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ENGINEERING BULLETIN

Issued by the Research Department of
McKinney Manufacturing Company
Pittsburgh, Pennsylvania

1926 No. 4

THE McKINNEY ROLLER PIN

Vertical and lateral wear—Recognition of lateral wear as a vital factor—The McKinney Roller Pin for Bearing Butts—An advance in hinge making

That butt-hinges are subjected to vertical wear has long been recognized. In fact, various types of vertical bearings have been developed and much has been said of how such bearings obviate vertical wear.

Lateral Wear a Vital Factor

Of lateral wear, however, little has been said, although it is an established fact that lateral wear is equally or more important than vertical wear. In fact, Professor Thomas G. Estep, Associate Professor of Mechanical Engineering at Carnegie Institute of Technology, Pittsburgh, has *proved* by exhaustive tests that such lateral wear is a factor of great importance in the life of butt-hinges.

Public Building Doors Particularly Affected

This is particularly true in the case of public building doors. A glance at the accompanying table will show to what extent such doors are subjected to hard usage. The number of operations these doors undergo over the period of a year is enormous. And lateral wear is correspondingly great.

Approximate Number of Operations of One Leaf of Door—Opening and Closing—1 Cycle

TYPE OF BUILDING AND DOOR	DAILY CYCLES	YEARLY CYCLES
Large department store entrance	5,000	1,500,000
Large office building entrance	4,000	1,200,000
Theatre entrance	*1,000	450,000
Schoolhouse entrance	1,250	225,000
Store or bank entrance	500	150,000
Schoolhouse corridor door	80	15,000
Office building corridor door	75	22,000

*Per performance.

Note.—The ratio between daily and yearly frequency varies with the type of building.

An Advance in Hinge Making

Most hinges are equipped with soft steel wire pins which, due to their non-rising lugs, virtually become a part of the three-knuckle leaf, remaining stationary with it. Consequently all friction developed occurs between the stationary pin and the revolving knuckles of the two-knuckle leaf of the hinge. (See A Fig. 2.) The only movement of the modern hinge with non-rising pin is that of the two-knuckle leaf around the pin. Here friction develops and wear takes place. The pins, made of soft steel wire, soon wear, permitting the hinge joint to get out of vertical, allowing the door to pull away from the hinge jamb at the top, also creating a cutting edge which rapidly cuts away the hinge, allowing the door to drop down in the opening.

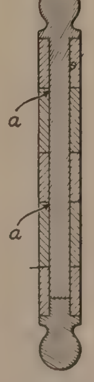

Fig. 1

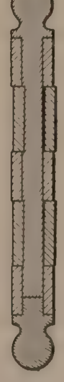

Fig. 2

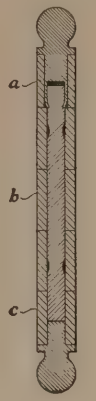

Fig. 3

McKinney, after considerable experimentation, has devised and patented a method of hinge assembling that obviates the result of lateral wear by reducing friction between the pin and the two-knuckle leaf.

McKinney is now furnishing all Ball Bearing and Anti-friction hinges with this new hinge pin—a case-hardened pin made in two sections, so that while top section remains stationary with the three-knuckle leaf, the other revolves with the two-knuckle leaf, very much as the well-known roller-bearing, which reduces friction and consequently wear to a minimum. A glance at Figs. 3 and 4 will make this clear. By reducing friction to a minimum, the hinge joint will remain vertical for a longer period of time and consequently eliminates the possibility of sagging doors. This is most important in the case of steel doors. It is a comparatively easy matter to plane the bottom of a wooden door, but when a steel door sags and drags on a brass or marble threshold, it is necessary to install new hinge equipment.

Non-rising lugs as furnished on modern hinge pins supposedly prevent the rising of the pins. However, the friction between the two-knuckle leaf and the pin rocks the pin back and forth and may eventually cause it to rise. When McKinney Roller Pins are used there is no friction between the two-knuckle leaf and the pin. It consequently does not rise.

The Roller Pin

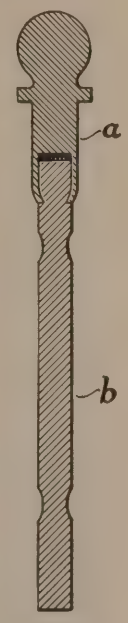

Fig. 4

The Roller Pin (Fig. 4) is a pin in two sections—a case-hardened roller (b) and special recessed ball tip (a). The roller is inserted into a machined opening in the ball tip extension which is drilled out to take the pin. The roller is then crimped to the ball tip extension so that the pin can be removed as any one-piece pin. This chamber is packed with grease before the roller is inserted. Section "a" remains stationary with the knuckle of the three-knuckle leaf, while section "b" revolves with the two-knuckle leaf.

The McKinney Roller Pin too has other advantages. There being a minimum of friction, doors revolve on their hinges with greater ease. This too affects the use of door-closers—the door-closer working more effectively where there is less frictional resistance.

In concluding, it can be said that the introduction of the patented McKinney Roller Pin is revolutionary in the manufacture of hinges—a long stride forward in their mechanical perfection.

Good Buildings Deserve Good Hardware

"All doors shall be *C-L-O-S-E-D!*—as quietly as you say it and as quickly—by Corbin Door Checks"

There's a specification, which if followed, will add much to the comfort of working and living in buildings.

Take this door, for instance. It shuts itself *now*. No longer will its owners dread the unexpected slam, the irritating draft, the everlasting caution—"Shut the door." A Corbin Door Check is in control.

There is no law to prohibit slamming doors, but there are Corbin Door Checks. To end forever those noisy sprees and lusty drafts is their life work. And they never die young.

Whenever Good Buildings go up let Good Hardware—Corbin go on. For Good Buildings deserve Good Hardware—good living demands it.

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The American Hardware Corporation, Successor
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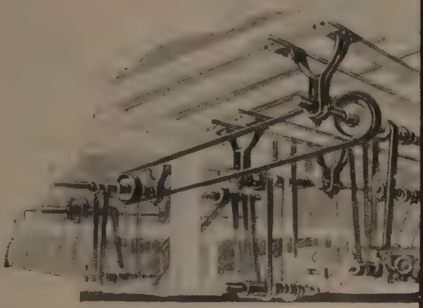
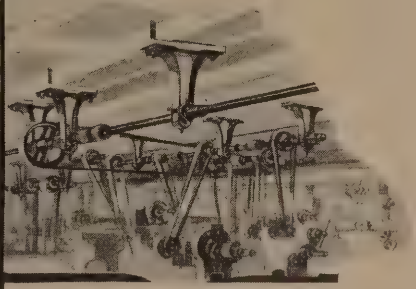
In line shafting hangers—Ball Bearings reduce power loss 10% to 15%

The actual loss of power in hangers with plain bearings runs up into big figures. The use of ball bearings in these hangers reduces the power loss to a minimum. Most shops and factories are now equipped with ball bearing hangers.



Saint Vincent's Church
Los Angeles, California
Albert C. Martin, Architect
Construction under the direction of
Wurster Construction Company
Cost, over one million dollars
Stanley Ball Bearing Butts used throughout.



U. S. Bureau of Standards tests prove the need of Ball Bearing Butts

THE following extracts* from an article in Hardware Age by Mr. Fairchild of the U. S. Bureau of Standards, speak for themselves:

"In general, where conditions warrant the use of bronze or brass butts, the ball bearing type should be specified, especially for frequencies estimated to be greater than 15,000 cycles per year, since *the service they give outweighs the differential in cost over the other types tested*. . . . Ball bearing washers of the visible type are preferable to the concealed type of ball bearings as now made. . . . There is little difference between the wearing qualities of steel butts with visible bronze washers and steel-bushed bronze butts, but *both types are decidedly inferior to Ball Bearing Butts*."

Stanley Ball Bearing Butts are standards of design and quality. They are made of either cold rolled steel or wrought bronze and include all the refinements of Stanley's 75 years of experience in the manufacture of fine hardware.

The Stanley trade-mark is on every butt.

The *Architect's Manual of Stanley Hardware* contains information which will aid you in selecting and specifying the correct hardware. We will gladly send you a copy. A description of the Stanley line of Butts and Hinges can be found in Sweet's Catalogue, pages 1556 to 1568.

---

* *A copy of the complete article will be sent upon request.*

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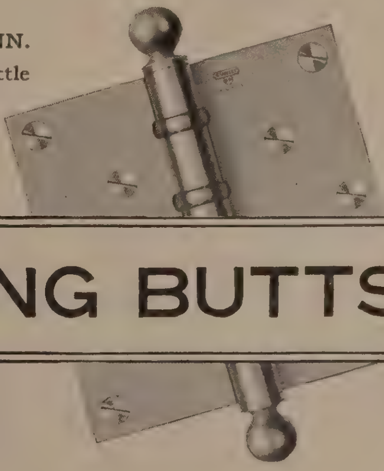

STANLEY BALL BEARING BUTTS

STANLEY
S.W.

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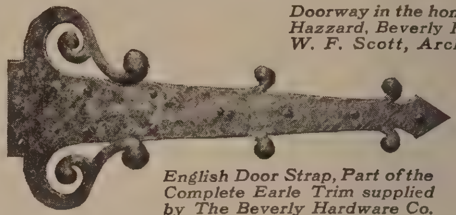

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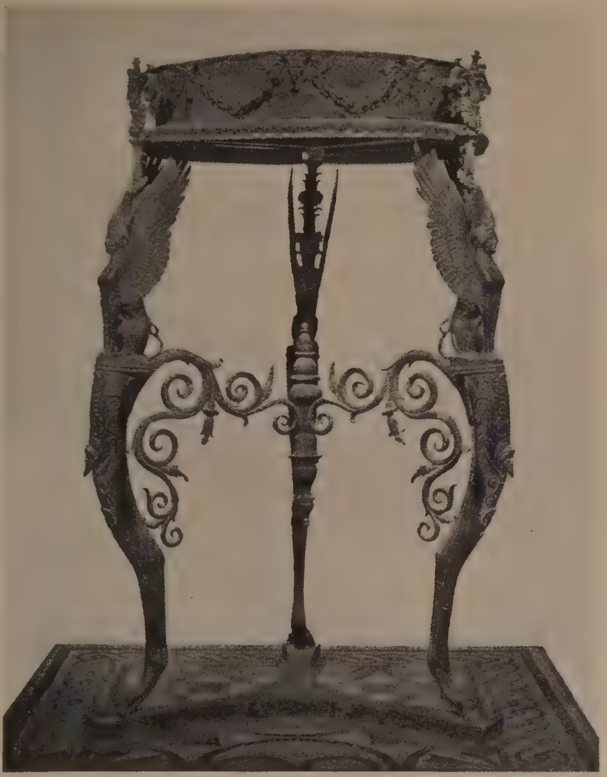
BOOK DEPARTMENT

The Furniture of the Antique World

A Review by EDWIN J. HIPKISS

Museum of Fine Arts, Boston

A STUDY of the history of furniture making brings the firm belief that there happen from time to time periods when there is a golden mean of men, materials and media. These periods come between epochs of primitive endeavor and epochs of overburdened means; the results of the first are likely to be meager, and the results of the latter are likely to "exceed their authority," for furniture as a rule should keep its place. It may seem a far cry to compare the furniture of eighteenth century America favorably with that of classical antiquity, but in this volume Miss Richter touches on their close kinship. Throughout endless centuries skilled artisans in wood have discovered and rediscovered the niceties of joinery, of grain, and of dove-tailed, wedged and mortised and tenoned joints, all sound constructions and within the limitations of their material. Necessity, structure and proportion are perhaps the factors in a correct concept of artistic furniture as we see it exemplified in the work of all ages.


Bronze Table in the National Museum, Naples

The concluding chapter of the book has to do with technique, and it is most informing, for we are told authoritatively of the kinds of wood in use, of the methods of joinery, and of the tools used by the workmen. That the worker in wood was held in high esteem even in Homer's time is interestingly shown by this quotation from the Odyssey: "Who is likely to invite a stranger from a foreign country, unless it be one of those who can do a public service as a seer, a healer of hurts, a carpenter, or a bard who can charm us with his singing? Such men are welcome all the world over." To complete this volume on ancient furniture there are an appendix and a number of plans and diagrams by Mr. Barker, and these should prove most useful for practical purposes. Altogether, the text, the illustrations, the typography and the general make-up of the book make a pleasing presentation, a very readable and valuable work, based on thorough research and much learning. To designers, artisans, students or collectors, in fact to everyone interested in old or new furniture as an element in settings of artistic significance, this book by Miss Richter, of the staff of the Metropolitan Museum of Art, will, it seems, be welcome.

Our indebtedness to the architect, sculptor, potter and metalworker of classical antiquity can be recognized the more easily because of the existing examples of their work. But what of furniture? The author attempts to answer that question with a fund of information gleaned from contemporaneous representations and from descriptions or references found in the literature of the times. We are shown the means of learning a great deal about the actual appearance of furniture that is now practically non-existent. For inasmuch as the furniture of all ages was chiefly of wood, we do not expect to see many surviving examples from these far-off centuries. It is interesting to learn that the few specimens still in existence have been saved for us by the dryness of the climate in Egypt and the Crimea, where they have been found. It is chiefly in the countless scenes of daily life found on vases, or marble reliefs and in bronze and terra cotta statuettes that quite definite representations of truly antique furniture have come down to us. And there is an amplitude of such illustrations clearly shown in the pages of Miss Richter's book.

An examination of the many illustrations of the most characteristically Greek chair, the *klismos,* reminds us of Prof. Gilbert Murray's thought on the quality of restraint and clean-cut endeavor in the arts of ancient Greece. There are, he says two concepts of beauty,—there is the beauty of the much carved and decorated ship, as in the Chinese junk or the galleon of the sixteenth century, and there is the beauty of the modern racing yacht with nothing more than the utmost refinement of its essential lines and proportions. The latter in his opinion comes nearer to the spirit of Greek art.

ANCIENT FURNITURE. A History of Greek, Etruscan and Roman Furniture. By Gisela M. A. Richter, Litt. D., Metropolitan Museum of Art. With an appendix by Albert W. Barker, Director of Art Education, Wilmington, Del. 191 pages, 8½ x 11¼ ins. Price $35. Oxford University Press, 35 West Thirty-second Street, New York.

Any book reviewed may be obtained at published price from The Architectural Forum

Promoting and Financing Coöperative Apartment Buildings

A Statement of the Forms and Methods Approved by the Coöperative Apartment Section, National Association of Real Estate Boards, with Complete Sample Documents

¶ Erection of coöperative apartment buildings, already proceeding upon a considerable scale in different parts of the country, would be far more general had there been during the past few years any recognized source of general information upon the subject. Each time THE FORUM'S pages have contained an article upon some particular phase of the matter, letters of inquiry have been received at THE FORUM'S offices which amply proved the need of a volume which would sum up and present a review of the theory and practice of the coöperative apartment house movement, the practical value of which has now been widely demonstrated.

¶ Such a work has now appeared, prepared in the light of considerable successful experience and covering every phase of the organization and administration of a coöperative apartment house project; the forming of the owning corporation; the sale of tenant owners' stock; arrangement of owners' leases; erection of the building, and the conducting of the affairs of the association when once the building has been constructed and is in operation.

¶ To render the work of as practical a value as possible, inclusion is made of all the legal forms likely to be required, such as stock certificates, leases for stockholders and subleases, and the blanks used in the office of the association's secretary or bookkeeper. A number of pages are given up to describing various forms of publicity which have been found useful in attracting members to coöperative apartment house groups, and the volume contains the information which, regarded from every point of view, has been required. It should supply a powerful stimulus to the coöperative movement by promoting a correct understanding of its fundamental principles.

Price $20

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A BACKGROUND TO ARCHITECTURE. By Seward Hume Rathbun. 395 pp., 5½ x 8½ ins. $4. Yale University Press, New Haven.

THESE pages have made frequent mention of volumes calculated by their authors to interpret to the public the why and wherefore of architecture, to set forth its *raison d'etre,* to designate its aims, and to describe the means and methods by which these are attained. It is not possible to deal separately with history and architecture, for viewed in one way architecture is history given visible and tangible form. Architecture, in fact, in certain of its developments presents a concrete picture of the civilization of the age which gave it birth; among many buildings which are the embodiments of the civilizations of their times there might be mentioned the Parthenon as representing the culmination of Greek perfection, Notre Dame or Amiens as standing for thirteenth century France, and the modern "skyscraper," with its steel supporting frame and flimsy walls of brick or terra cotta, which we are sometimes told is representative of the unstable, make-believe civilization of America in the nineteenth century or the twentieth;—and the setting forth of the interactions of history and architecture and the interpretation of the results which these interactions produced are among the functions of architectural criticism. It would be scarcely possible to produce from a field already so well tilled much that is original or strikingly new. The well known and familiar subject matter must perforce be used over and over again.

"To make these things clear in a simple way is the present aim. Some years of teaching the beginnings of architectural knowledge have shown the need of such a preface to the existing histories, which, from the very largeness of the subject, often confuse one who has not the key to the mystery, by their mass of facts and specialized terms. There is no intention here to duplicate what they have already given so adequately, to take arbitrary positions on debated questions, or to dictate to anyone in matters of taste; there is merely an endeavor to show forth the principles on which the recognized architectural achievements have depended for their success, to explain how intimately these achievements have been connected with the other manifestations of the period or race which produced them. It is the big facts and their relationships which will interest us, relationships which, tying architecture to all the other phases of civilization, must be realized before architecture itself can properly be understood. No fact or development that has been significant in the past has ever stood alone, but each has been the result of causes still further in the past, which have made it possible, and of conditions contemporary with it, which have modified its character. So also with the present and the future. What we are doing today is as dependent on the things which lie behind us as on those which make up our daily lives, and what the generations to come will achieve must, in part, be caused by our success or failure now. All the grouped factors of civilization create the background for any one phase of civilization which we may be studying, and that is one point of view from which we shall consider architecture, tracing how, in its successive stages of development, it became to some extent the background for its own future and how it was complicated, as a background, by the other forces acting at the time of its production."

DESIGN OF CONCRETE STRUCTURES. By L. C. Urquhart and C. E. O'Rourke. 501 pp., 5¾ x 9 ins. Price $4. McGraw-Hill Book Co., Inc., New York and London.

CONCRETE, a material largely employed by the ancients, and particularly by the Romans for the construction of their great engineering works, has during the past 25 years been growing rapidly in use in America. But in addition to much regarding the use of concrete which the modern world has learned from antiquity, much has been added which has been the result of experience. Probably most of the concrete now used is reinforced by steel, thus adding enormously to its strength, and the use of modern mixing machinery has done wonders in adding to the value of this most useful material. Concrete is composed of ingredients easily procurable almost everywhere, and possibly the very ease of securing them has been responsible for wide mis-use or rather abuse in the use of the material. Many builders and even some engineers seem to feel that any mixture made up of cement, stone, sand and mortar which will attain a certain degree of hardness constitutes concrete, and acting on this theory has been the cause of much building which has been clumsy and awkward even when it has not utterly failed. Mixing of concrete should be most carefully done; only the proper kind of each of the materials employed should be used, and the manner of mixing is a matter upon which much depends. Engineers and builders would do well to study with care the minutiæ of mixing concrete.

The authors of this useful work are the Professor and the Assistant Professor of Structural Engineering at Cornell University, and the purpose of the volume is to provide a text book on concrete and reinforced concrete which can be used in conducting the elementary courses given in schools of engineering; it does not attempt to cover the entire subject of concrete construction. Naturally, the development of the work has been influenced by the authors' experience as teachers, and it has been their aim to give a development of theory with a sufficient number of problems of illustration to insure the student a firm grasp upon what are the real fundamentals.

HANDBOOK OF DOMESTIC OIL BURNING. "Tentative Edition." 224 pp., 4½ x 7 ins. Price $2. American Oil Burner Association, 350 Madison Avenue, New York.

THE compilers of this highly useful manual preface its pages with a "Foreword" which says that owing to the recent origin and rapid growth of the use of oil for fuel there have not yet been secured adequate data, particularly in published form, and that this is therefore but a "tentative" work. Its closely printed pages, however, filled with data which could be nothing less than the result of careful research, suggest far more than the foreword leads one to expect and suggest rather at least a solid and firm foundation for a work which shall possess a permanent value. The subject of use of fuel oils is of course highly important to architects, particularly to such as specialize in domestic work, and while the entire volume deserves and will amply reward close study, architects will be particularly interested in Chapter XIII,—"Oil Burning and The Architect." This chapter covers the subject quite fully, and one very helpful detail is the inclusion of many plans of basements for houses of different sizes, suggesting layouts in which provision is made for use of oil-burning apparatus.

GRADE SCHOOL BUILDINGS; BOOK II

IN no department of architecture have the last ten years seen quite the progress which has been made with schoolhouses, a class of buildings of the first importance, since they exert a strong influence upon their communities, and by their architectural excellence or the lack of excellence they elevate or lower the architectural standards of entire districts. Study of school structures, particularly at the hands of a group of well known architects, has resulted in their being given a high degree of architectural distinction and dignity in the way of design, while study directed toward their planning and equipment has led to their being practical and convenient far beyond what was regarded as an advanced standard of efficiency anywhere in America even a few years ago.

Kensington Schoolhouse, Great Neck, N. Y.
Wesley Sherwood Bessell, *Architect*

THIS volume, a companion to another published in 1914, records the results of endless study and experiment in different parts of the country, summed up and presented. By illustrations of exteriors and interiors, by floor plans and carefully written descriptions and articles by well known architects and educators, the present high standard of schoolhouse design is made plain, and these results which have been achieved by a few architects and school boards are thus made possible to all architects who are interested in schoolhouse design. The compiler has selected from almost 1000 exteriors and floor plans the school buildings to be illustrated, and the volume records "a process of innovation and elimination, namely, the introduction from time to time of features which have been deemed desirable and practical, and the elimination of things which, owing to changed school methods, are no longer required."

400 pages; 7¾ x 10½ inches
Profusely Illustrated; Price $10

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THE EARLY ARCHITECTURAL HISTORY OF THE CATHEDRAL OF SANTIAGO DE COMPOSTELA, By Kenneth John Conant. Plates, plans and 58 pp. of text 8½ x 12 ins. Price $5. Harvard University Press, Cambridge, Mass.

DURING the past few years archæologists have been devoting research and scholarship to the study of the Romanesque remains of Spain, France and northern Italy, a treasury of architectural design, which besides being surpassingly and superlatively rich is comparatively little known. Architecture of this type found its use largely in churches, cathedrals and monastic houses, and had its origin and the greater part of its development during the eleventh century, when much of the popular religious fervor (which later was to find such marvelous fruition in rearing the Gothic cathedrals) sought expression in pilgrimages to the tombs of the saints,—and in western Europe no shrine drew to itself more devotion than that of St. James the Apostle, in northwestern Spain. Upon this shrine there were lavished for centuries the gifts of throngs of the faithful as the first humble beginnings in the form of a wayside chapel gave way to an ever and ever larger church,—always "too small for such great glory," until at length the tomb of the apostle was marked by one of the supreme glories of Spanish architecture,—the Cathedral of Santiago de Compostela, brought into being by the united efforts of Spanish kings and bishops and hosts of pilgrims from Italy, France, Spain, the British Isles and from all of western Europe, all of whom made their contributions.

The cathedral, as it appears today, shows that builders have used upon its fabric all the architectural styles which have been current in Europe from pre-Romanesque to the particular version of the Spanish Renaissance which students know as "Plateresque." It presents an appearance imposing indeed, placed as it is upon an eminence and with its strikingly stately Spanish Renaissance towers dominating the cathedral and the rambling mass of accessory buildings, episcopal palaces and the other structures which during almost a millenium have been grouping themselves about its base. The Romanesque character of the church is perhaps most marked within, although alterations in other and later architectural styles have altered considerably what must have been its original appearance, and the interior loses something of what would otherwise be its impressiveness because of the peculiarly Spanish arrangement of the choir (*coro*), which by blocking up the area beyond the junction of nave and transepts interferes with the view which might be had from the west end of the church to the feretory, which is situated behind the high altar.

The volume is a notable and most valuable addition to the number which have already appeared upon the architecture of the mediæval period and the epoch which immediately preceded the mediæval age. The work gives every evidence of thoughtful, painstaking scholarship, and its abundant documentation, its frequent references to other published works, and its many plans and other drawings afford valuable data to later students who may undertake further archæological research into a rich and little known passage of European architectural history.

"CHURCH BUILDING"—*By Ralph Adams Cram*
(A NEW AND REVISED EDITION)

THE improvement which has accompanied the progress of American architecture during recent years has been no more marked in any department than in that of an ecclesiastical nature. This has been due primarily to the rise of a few architects who by travel and study have acquired much of the point of view from which worked the builders of the beautiful structures which during the fourteenth century and the fifteenth were being built over all of Europe.

These architects have closely studied the churches, chapels, convents and other similar buildings in England, France, Spain and elsewhere, and the result has been a number of American churches of an excellence so marked that they have influenced ecclesiastical architecture in general and have led a distinct advance toward a vastly better standard. This improvement has not been exclusively in the matter of design, for plans of older buildings have been adapted to present-day needs, and old forms have been applied to purposes which are wholly new.

THE appearance of a new and revised edition of a work which is by far the best in its field records this progress. Mr. Cram, being perhaps the leader among the architects who have led this advance, is himself the one individual best qualified to write regarding the betterment of ecclesiastical architecture. The editions of this work of 1900 and 1914, which have for some time been out of print, have now been considerably revised and much entirely new matter has been added, which in view of the change which has come over ecclesiastical building of every nature is both significant and helpful.

Illustrations used in this new edition of "Church Building" show the best of recent work—views of churches and chapels large and small, in town and country, buildings rich in material and design and others plain to the point of severity, with the sole ornament in the use of fine proportions and correct lines. Part of the work deals with the accessories of the churches and their worship.

345 pages, 6 x 9 inches, Price $7.50

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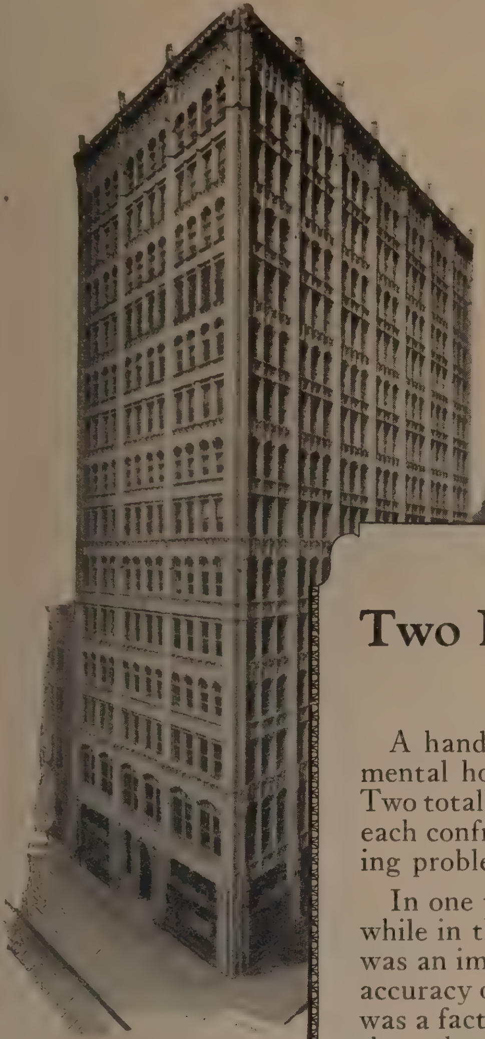

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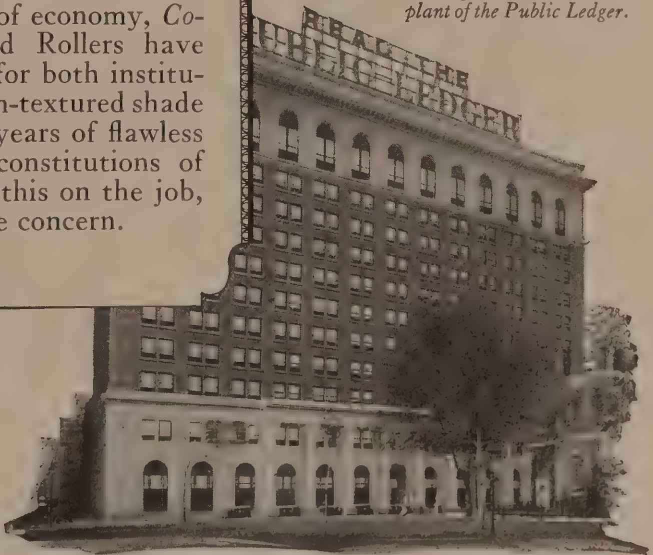

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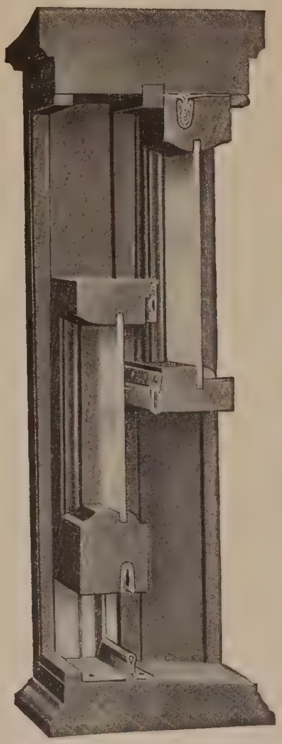

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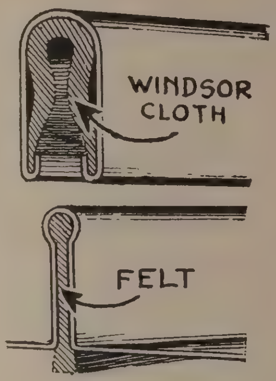

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THE EDITOR'S FORUM

A SMALL HOMES COMPETITION

TO aid home builders in the suburbs of every American city, as well as those in the vicinity of Chicago, *The Chicago Tribune* has instituted a "Small Homes Competition." On Sunday, September 12, *The Tribune* made announcement of the scope of the competition, which is for designs and plans for two classes of houses, one being a five-room house with two bedrooms, the other a six-room house with three bedrooms. Architects, architectural draftsmen, and students are invited to submit one, but not more than one, design in each class. All draftsmen, whether licensed or not, are eligible as competitors. These prizes, aggregating $7,500 in cash, will be awarded to the architects or draftsmen submitting winning designs: For first prize design in each class, $1,000 each; for second prize design in each class, $750 each; for third prize design in each class, $500 each; for fourth prize design in each class, $300 each; for fifth to tenth prize designs in each class, $200 each. The designs in this competition need not be limited to any period,

The jury of award for *The Chicago Tribune* Small Homes Competition includes: John Mead Howells and Raymond M. Hood, architects of *The Tribune* Tower; Louis James Bargelt, Home Builders' Editor of *The Chicago Sunday Tribune* Real Estate and Home Builders' Section; Al Chase, Real Estate Editor of *The Chicago Tribune;* Holmes Onderdonk, Manager of *Chicago Tribune* Properties. Earl H. Reed, Jr., of the American Institute of Architects, will act as professional adviser. Each set of prize winning designs will be published in *The Chicago Tribune's* Sunday Real Estate and Home Builders' Section beginning with Sunday, January 2, 1927, and continuously each Sunday thereafter until all the plans have been presented. Further details regarding the competition, which will close at 5 o'clock, Wednesday, December 1, 1926, may be had of *The Chicago Tribune* Small Homes Competition, Tribune Tower, Michigan Avenue, Chicago.

MORE LOW COST APARTMENTS

ENCOURAGED no doubt by the success of its experiment in providing low cost housing in Greater New York, the Metropolitan Life Insurance Company is now considering extending the benefits of its operations to other cities, according to a recent statement by Haley Fiske, president of the company. The suggestion is based upon the successful construction of apartment houses with rentals at $9 a room in Queens, which Mr. Fiske announces is returning 8.8 per cent profit on the investment. Under the state law the company is allowed to keep 6 per cent, and the rest is being applied to income tax payments and to wiping out the original investment. Fifty-four apartment houses were built, costing, with the land, $7,500,000. They are occupied by 2,125 families. Mr. Fiske announces that the Metropolitan is ready, if protected by legislation similar to that in New York, to undertake to improve housing conditions in the country outside New York.

ANOTHER COVER COMPETITION

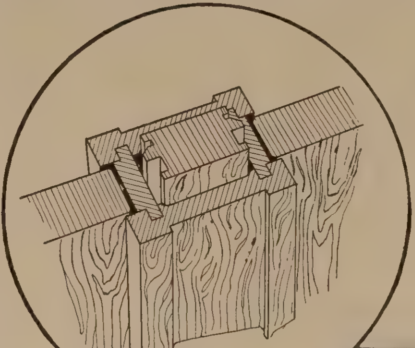
THE holding of *The House Beautiful* cover competition has been an annual event for the past four years. The announcement of the fifth competition offers, in addition to the first prize of $500, four special prizes of $250 each, and six honorable mention awards. The student certificate of merit (with honorarium), offered for the first time last year, is continued this year for students of any school of art. The exhibition of 100 or more of the best designs, which has been a feature of the competition since the beginning, will be considerably extended this year, and covers will be shown in all the important cities from coast to coast. The competition closes January 14, 1927. Full particulars regarding it may be obtained from the Competition Committee, *The House Beautiful,* 8 Arlington Street, Boston.

CORRECTIONS

PLATES 39 and 40, of THE ARCHITECTURAL FORUM for September illustrated the Masonic Temple at Greenwich, Conn. By an oversight an error was made in giving proper credit for the designing of the building, which was the work of George B. Post & Sons, with F. G. G. Smith in collaboration.

ON page 143 of THE FORUM for September it should have been said that degree rooms of fraternal buildings may well be placed upon second floors where they are planned to seat 1,000—not 100. The designing of the Scottish Rite Cathedral at San Antonio should have been credited to the Herbert M. Greene Company, Ralph Cameron supervising.

IN connection with our article on "The Planning and Construction of Swimming Pools" in the September issue of THE ARCHITECTURAL FORUM we have received an interesting and informative letter from Mr. J. Francis Booraem, M. E., too long to print in full, but advising us that the illustration of the "shell and lining of a swimming pool" and "coping, overflow gutter and drain" shown on page 187 are details of swimming pool construction designed and patented by him, and available only by arrangement with him. The illustrations in question were selected by the editors as adding to the value of the article, and were taken from among the technical illustrations of *Sweet's Catalogue,* 1924-25, pages 458 and 460, where they appear without indication of patent or copyright, which accounts for the error.



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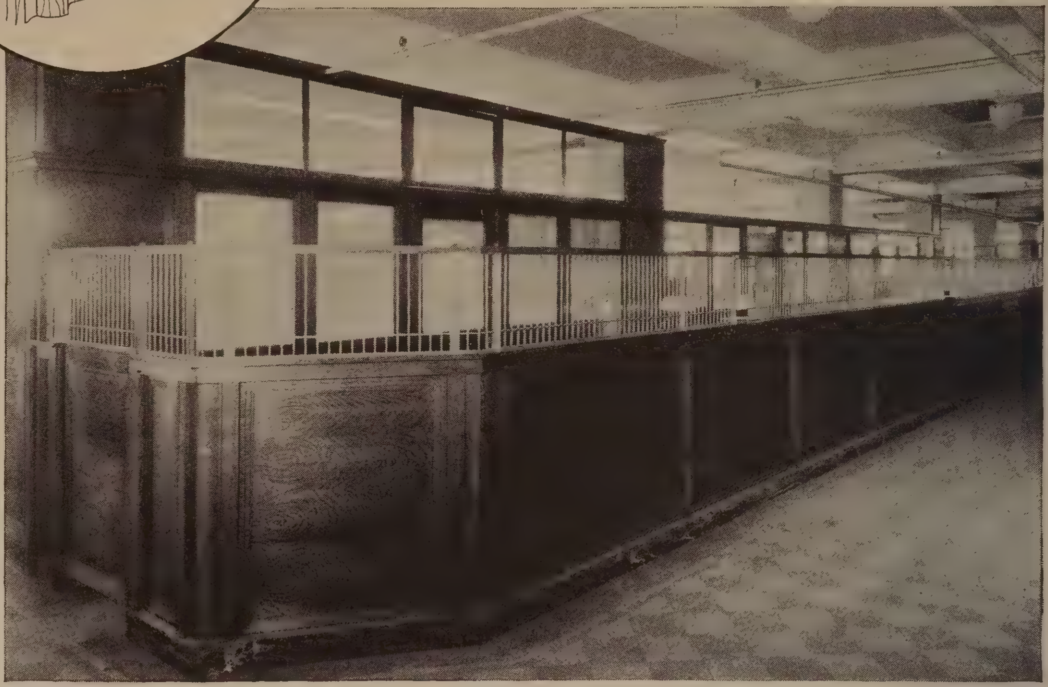

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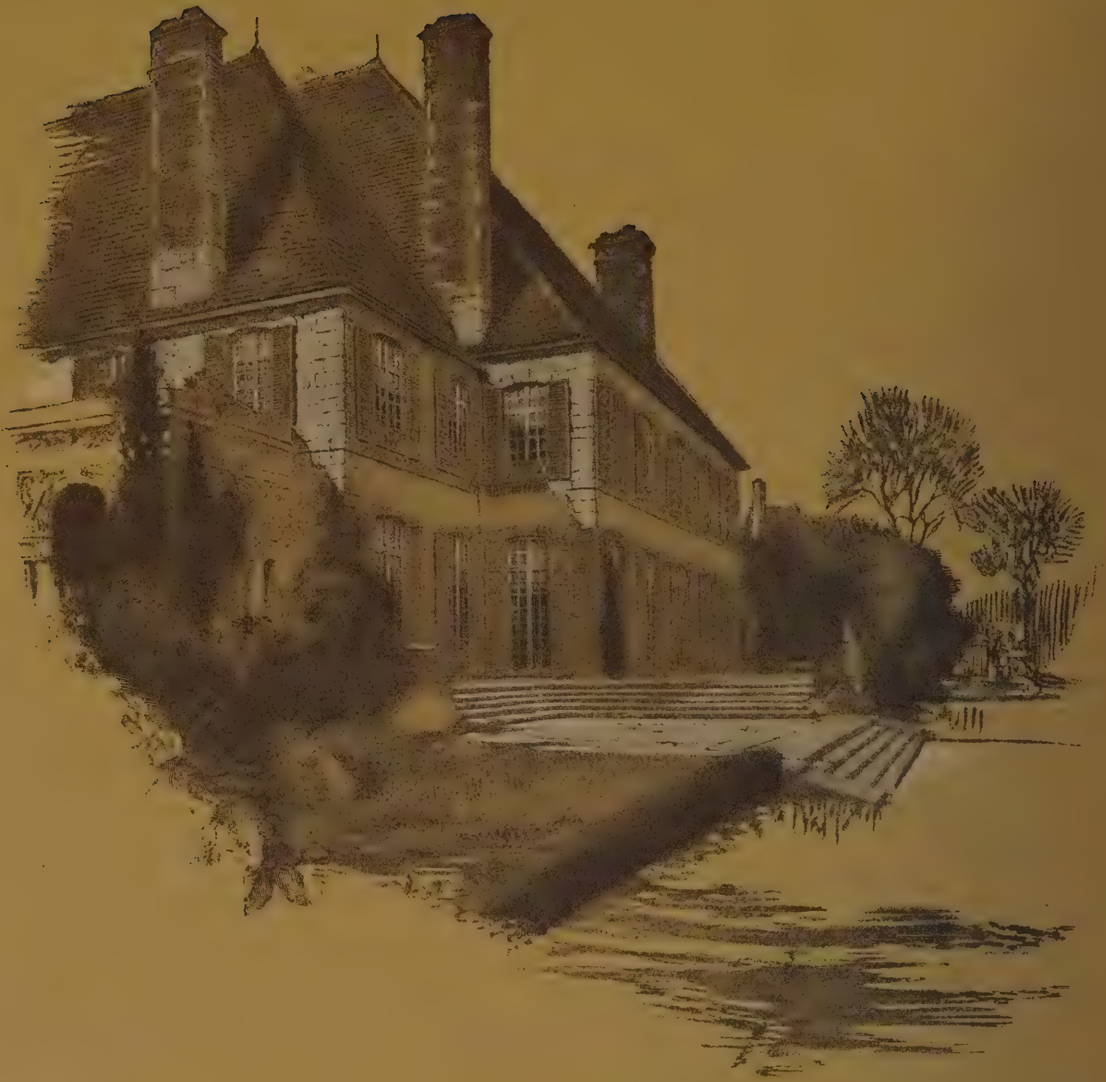


HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT

From a Rendering by Otto R. Eggers

The
ARCHITECTURAL
FORUM

Volume XLV NOVEMBER 1926 Number 5

The House of Moses Taylor, Esq., Portsmouth, R. I.

JOHN RUSSELL POPE, Architect

By LEIGH FRENCH, JR.

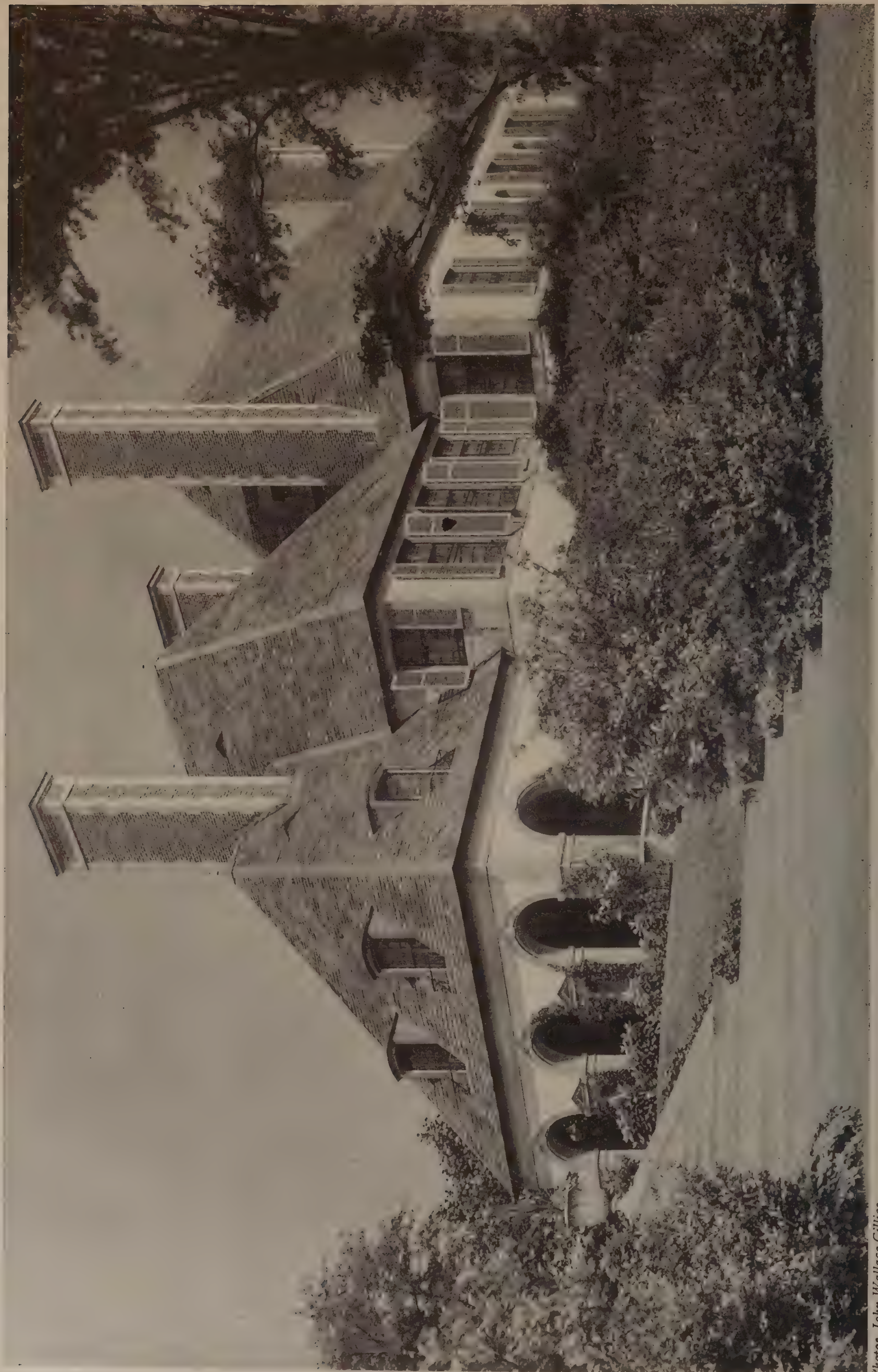
THE house of Moses Taylor, Esq., at Portsmouth, recently designed by John Russell Pope, is characteristic of a trend that has steadily become more and more pronounced in American country house architecture during the past few years. It is that marked trend toward the assimilation of French rural types as a basis of composition. The French prototype serves as a point of departure, so to speak, a source from which appropriate derivations may be freely drawn, and a body upon which acceptable and consistent adaptations may be grafted.

It is not the first time in the history of American architecture that France has furnished inspiration which has exercised a marked effect in the field of domestic design. In the early years of the republic, when feeling was particularly strong, French fashions had a profound influence, and this influence was reflected in domestic architecture as well as in the sort of clothing people wore, the kind of furniture with which they equipped their rooms, and all the sundry polite details that went to make up their environment. Unfortunately, a good many of the houses of that date have either entirely disappeared or else been so altered that the real source of their original inspiration is not readily obvious. The furniture of the time, however, and its minor accompaniments bear unmistakable witness to their derivation, while contemporary prints tell no uncertain story on the score of costume at that distant period.

How far this following of French precedents was the result of mature judgment and reasoned conviction in point of taste, and how far it was a matter of favorable sentiment enhanced by the glamor of novelty and appeal to the popular imagination, it would now be exceedingly difficult to say. We shall probably not be far wrong in attributing the wide prevalence of the French vogue to both causes combined. We are reasonably safe in assuming that when Chancellor Livingston built his house on the banks of the Hudson and filled it with choice French furniture, and that when Gouverneur Morris brought home sundry *objets d'art* that he had gathered during his residence in Paris and installed them in Morrisania, they were actuated by the discriminating taste of cultured gentlemen. We are likewise safe in assuming that when the people of Philadelphia wined and dined "Citizen Genet," and danced about liberty poles they were moved purely by highly stimulated sentiment. Friendship for France was in the air.

The current trend in favor of French domestic types is based on a more stable foundation. It cannot be ascribed to any sentimental enthusiasms that have captured the popular fancy at the expense of calm judgment. On the contrary, the acceptance of French inspiration at the present day is conditioned by cool discernment and a carefully reasoned appraisal of its worth. It stands altogether upon its own intrinsic merits. Open-minded readiness to accept and assimilate whatever is good, no matter from what particular source it may be derived, has always characterized American architecture in its best epochs. With the willingness or even eagerness to accept fresh material for assimilation, however, there is reserved the liberty of rejecting what is not suitable for the purpose. It is in this spirit of impartial discrimination that Mr. Pope and others working in substantially the same vein have employed French rural types as a growth suitable to be transplanted, acclimated and cultivated on American soil with promising results. In so doing they have not at all surrendered the rights and opportunities of manifesting originality and their own individuality of interpretation. Indeed, as the outcome plainly indicates, they have rather emphasized the factor of creative design and broadened its scope or application.

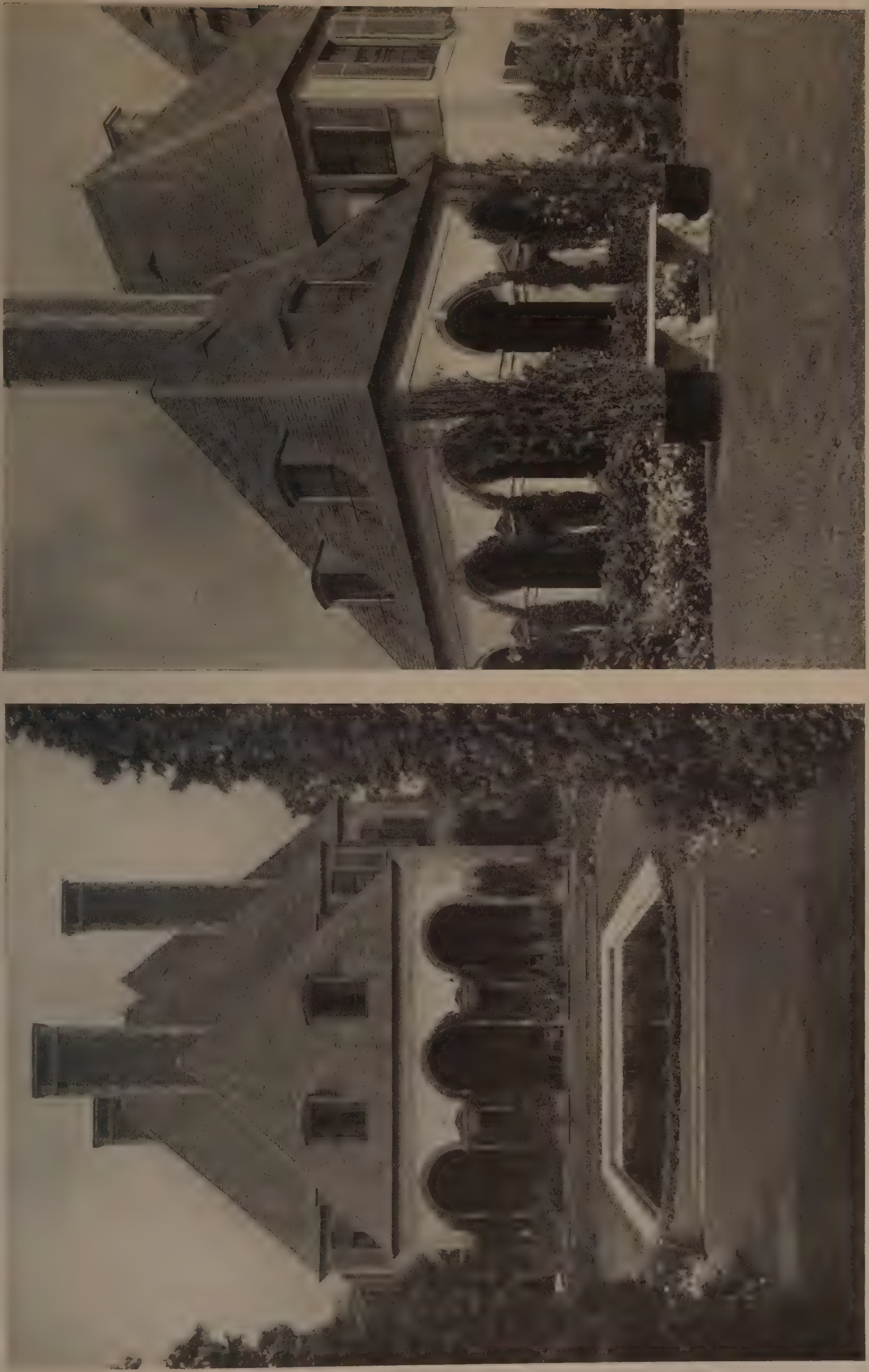
Certain prejudiced critics, both lay and professional, who contend that French domestic types are exotic to America and therefore unsuitable for employment, put themselves in an absurdly indefensible attitude. As a matter of pure history, every mode of domestic architecture of which America can boast has been at some time of exotic derivation; the only really *indigenous* American types are to be found in the Indian wigwam and the house of wattles covered with the bark of trees. So far neither of these types has proved a promising source of architectural inspiration. If this restrictive program of rigidly excluding everything "exotic" were to be carried to



Photos. John Wallace Gillies

HOUSE FROM THE GARDEN, ESTATE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



DETAILS, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT

One View of the Entrance Facade

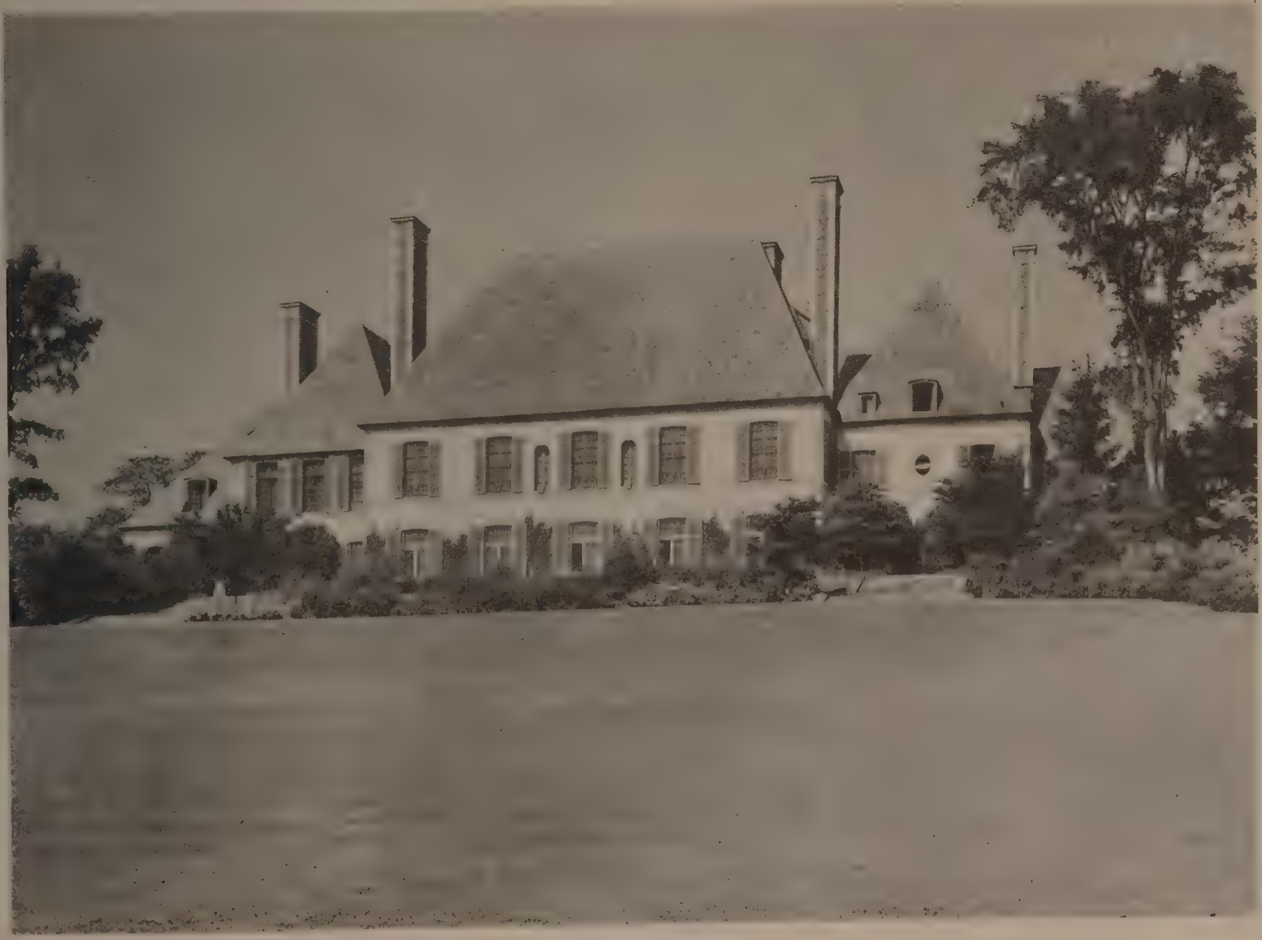
its ultimate logical conclusion, we should have no peaches, no pears, no cherries, no bricks, no silk, no roses, no potatoes,—in short we should be reduced to a state of voluntary savagery and utter destitution. It is sheer madness to dream of staying the course of evolution, whether in the general accompaniments of civilization or in the modes of architectural expression. The adaptation of fresh material is the means by which architecture is enriched and maintains its vitality. It is certainly the means by which domestic architecture in America today has attained the merits it possesses. Furthermore, French provincial domestic types are not exotic to England or America in the sense in which Italian or Spanish types might perhaps be termed exotic. With three factors that markedly affect French architectural style,—climatic conditions, materials, and general topographical characteristics,—having many close resemblances to the same factors in America, it is not unreasonable to regard with more than passing interest the type of domestic building in a land where the general trend and ideals of culture have much in common with those prevailing on the western side of the Atlantic. "There is nothing new under the sun" may be said as truly of architecture as of anything else. Novelty and originality are wholly dependent upon the personal equation. Creative originality in architectural design proceeds from the way in which the individual interprets, adapts, modifies

General View, Showing Garage and Servants' Wing and combines the precedents at his disposal. Originality of design is fundamentally a selective and evolutionary process, and all worthy originality of architectural design has come by the channel just noted, not by contemptuous avoidance of precedents and an obstinate determination to produce something wholly new and totally unlike anything seen before.

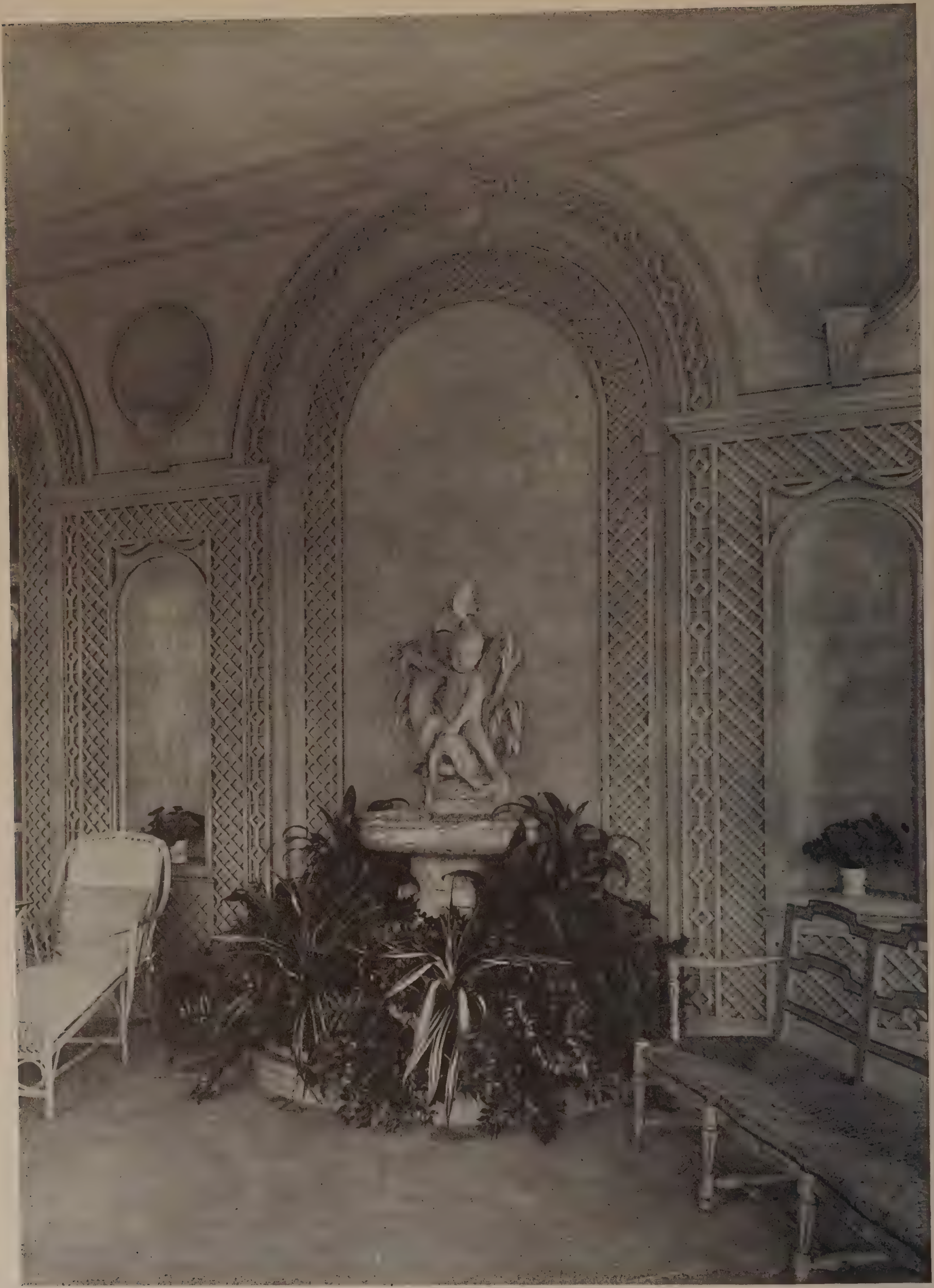
Taking a type of provincial French house as a theme to work upon, Mr. Pope has produced a composition which, while agreeably reminiscent of the historical source that served as the germ of inspiration, is replete with the characteristics of individual interpretation, so that the distinctly personal quality of the conception is plainly apparent. As a matter of fact, while the French element has given the dominating tone, there are also elements of unmistakably Italian origin happily incorporated, so that the composition carries the easy air of truly cosmopolitan poise, a graceful, refined sophistication.

The plan is thoroughly American and thoroughly in accord with the domestic requirements of the present day. However acceptable may be the external style of the provincial French house as a factor of composition, there are comparatively few French country houses of the eighteenth century, or earlier, whose plan would satisfy even the least exacting American client. The American plan is fully organized and thoroughly articulated. It is easy to follow the purpose of all its parts at a glance and,

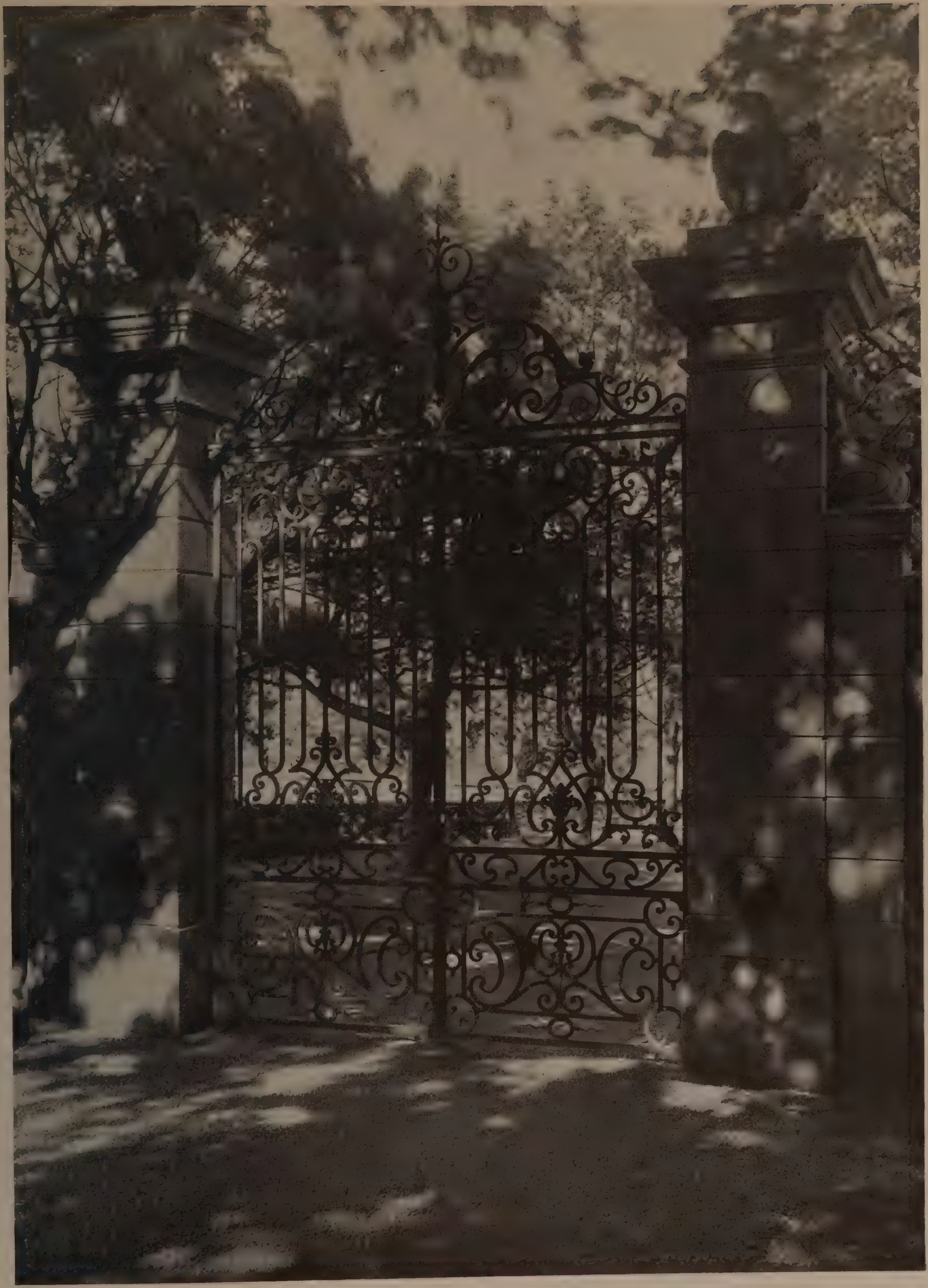
The Garden, from the Veranda



The Garden Facade



TREILLAGE ON THE VERANDA, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT



ENTRANCE GATES, ESTATE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT

quite naturally, it is carefully calculated to meet the requirements of the American mode of living and American methods of household management. The plan of almost any French country house, of a type likely to prove agreeably suggestive in point of external style, would appear incomprehensible and totally inadequate for convenience and comfort in its arrangement. The order of living in the one case is almost wholly different from the order of living in the other, and in any instance where French provincial precedents supply the motif from which a scheme of composition is adapted it is safe to assume that the French plan will prove of little or no value. With this fact in mind, it is worth noting that Mr. Pope has retained an external feature of admitted interest in composition and logically fitted its presence into the plan. The square tower projecting from the southwest front accommodates the staircase and makes it possible to provide a long, unobstructed cross hall connecting or drawing together all the principal rooms on the ground floor.

Boat House, Estate of Moses Taylor, Esq.

The south loggia, overlooking the flower garden and pool, is distinctly Italian in conception and treatment and is one of the most engaging external features of the house. There is nothing characteristically French about it, except the *treillage* on the piers within the arcade, and yet it fits perfectly into a body of obviously French inspiration without doing violence to the sensibilities of the most archæologically inclined stylist. It is just by such skillful bits of manipulation and combination of precedents drawn from widely variant sources that the architect not only manifests his own sane originality but also justifies the eclectic practices to which American domestic architecture today owes no small share of the interest and freshness which render it notable.

Apart from this south loggia, which is quite appropriately carried out in a spirit of blithesome geniality in accord with its immediate environment and the purpose it serves, the exterior is composed with a degree of reticence and simplicity apparent only after close analysis. Viewed as a whole, the house does not impress one as being essentially austere in its expression, and yet it is not at all dependent upon an elaborately organized scheme of details to impart seemliness and suavity of finish. It is singularly free from all complexities of ornament. There are no meticulously studied mouldings, and there is no cornice beneath the eaves. There is rigorous abstention from all manner of "jewelry" whose presence might have been condoned on the plea of customary convention. The single piece of deliberate decoration occurs in the treatment of the main doorway, and there the enrichment is fully justified for the sake of accent to emphasize the importance of a central feature and likewise to stress the simplicity of the rest of the composition. The flush quoins and the string course between the stories can scarcely be put in the category of ornament. Their function, partly constructional in the case of the quoins, is chiefly to give definition and to articulate the ensemble. For the rest, whatever ornamentation there is proceeds from the necessary and indispensable items of constructive composition and the manner in which they are disposed,—the mass and balanced disposition of the several parts, the contour of the roofs, the proportions and placing of the chimneys, the rhythmical arrangement of the fenestration, the sizes and shapes of the penetrations, the character of the blinds and the glazing of the casements, and, finally, the colors and textures of the materials. These are all the elements that enter into the ornamentation of the composition, and each and every one of them is a necessary and inevitable item of construction. Furthermore, each of them in itself is conditioned by the utmost simplicity of form. As a result this house, whose very essence resides in directness and simplicity without making a forced appeal to that end, has all the attractiveness and visual interest that are often arrived at by more artificial means. In actuality it is austere to the point of severity; in effect, it possesses grace.

One danger in adapting French provincial types to modern American use lies in the temptation to be carried away by the picturesque. The temptation is strong and readily yielded to. For instance, how often does one see houses admittedly designed from French provincial prototypes in which stuccoed wall surfaces have lost all the repose they ought to have through being cut up by brick band courses that can properly be used only where all the dimensions are conceived on a far broader scale than the adaptation usually exhibits! Nothing is more disastrous than this sort of futile striving after too many "features."

Some Old Houses in Wiscasset, Me.

By M. O. GOLDSMITH

"THOUGH considerably celebrated for the nautical enterprise of its inhabitants," Wiscasset was first accurately described, says the Rev. Alden Bradford, by himself in 1800. (See Collections of Massachusetts Historical Society for 1800, p. 280 and ff.) It was then a port of entry and delivery, deriving importance from its situation on the western branch of the Sheepscot River some 20 miles from the mouth of that wide and navigable estuary. The name "Wichcasset" had been given the spot by the Indians to denote the confluence of three tides. (See p. 267. Sewall.) For many years it had been a center of exportation of spar timber to Europe, but at the turn of the century the merchants residing there were chiefly employed in the West India trade, owning nearly 30 square-rigged vessels. Consequently there were "considerable wharves in this place, one of them 550 feet in length, . . . large and elegant dwelling houses, numerous stores, a meeting house and court house." Moreover, Wiscasset was the shire town of Lincoln County; it was on the post road from Boston to St. George's River, and got mail from Boston twice a week. Its only shame was that some of the common people imbibed too freely of spirits, and often drank tea twice a day, "which must be very injurious to the constitution," says their pastor and historian.

Wiscasset was among the several ports of the eastern states surveyed by Joshua Humphreys in 1801 for the purpose of ascertaining the best place for docks and navy yards. In his report to the Secretary of the Navy, from which extracts were published in the *American Review* for 1802, Humphreys sums up the advantages and disadvantages of New London, Newport, Boston, Charlestown, Portsmouth, Portland and Wiscasset. He rules out the Sheepscot port for these seasons:

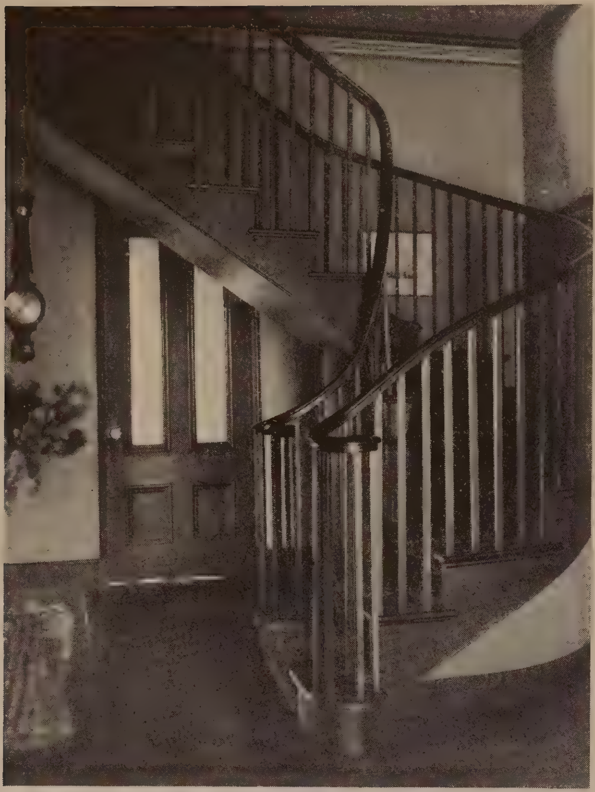
"1) Fogs that are frequent on this coast.
2) Great distance from the center of the Union.
3) Difficulty of procuring artificers and seamen.
4) Price demanded by Mr. Lee for his land and mills (on Birch's Point), being twelve thousand dollars."

But one can see that in spite of its remoteness and the price put upon the best land for docks by this Silas Lee, of whom we shall speak later, Wiscasset held a place of considerable commercial importance in 1802. Along came the War of 1812 with the paralyzing Embargo Acts and ruined the merchants. The town received an economic blow from which it never recovered, for maritime trade was not resumed from these Maine ports. From an architectural point of view we are indebted to this period of financial depression as we are to the volcanic eruption that preserved Pompeii as it was in its prime. There was no money during succeeding generations to reconstruct the fine old houses according to changing fads. They remain today much as they were, although two of those illustrated here—the Carleton and Tucker houses—have undergone changes for the worse.

The oldest of the houses shown here is known as the Governor Smith house. It was erected by the Hon. Silas Lee soon after his title to the land had been perfected in 1792. I quote Mr. William Patterson of Wiscasset, to whom I am greatly indebted for authentic data concerning the various buildings: "Although an earlier date has been assigned for its erection, it does not seem to me likely that so careful a lawyer as Judge Lee appears to have been would have expended much money upon a piece of land to which he did not have a perfect title. Whether the entire house was erected that year, no one knows. The portion nearest to the meeting house (seen as the brick wing in the picture) appears to be older than the main house." Along in the 'thirties the house was bought by Samuel E. Smith, Governor of Maine 1831-33, and is still in his family. No alterations have been made, but the portico, which fell into neglect during the governor's long tenancy, was carefully restored from the original by his widow.

Before inquiring into the sources of the style of the house, it may be well to mention the various local building enterprises of Judge Lee. He built the Smith house around 1792. Then, on the stretch of 50 acres considered by the government as a site for navy yards in 1802, he built another notable house, since destroyed by fire, where he lived after leaving the Smith house. In 1807 he employed a Scotch architect, says tradition, to build the Tucker house, where he lived until his death in 1814. Records show that he owned a number of other houses from time to time, but whether they were all built by him cannot be determined. It seems safe to conclude that building houses was a hobby with him, aside from his legal duties, and that he had a keen sense of real estate values can be deduced from the price he put on Birch's Point. His architectural taste, while not based on technical training, was at least up-to-date. His biography reveals the fact that before coming to Wiscasset he had been where he would have seen and noted the best contemporary building in and around Boston. He was born in Concord, was graduated from Harvard in 1784, studied law at Biddeford, near Portland, and started his professional practice in Wiscasset, where he had a clear and, as it turned out, a fertile field; for during the strenuous days of the War of 1812, while he was Judge of the Probate, the courts were crowded with cases involving violations of the Embargo Act. All the commercial interests of the vicinity were against him, yet he was highly respected by his neighbors for devotion to his calling. (See Willis.)

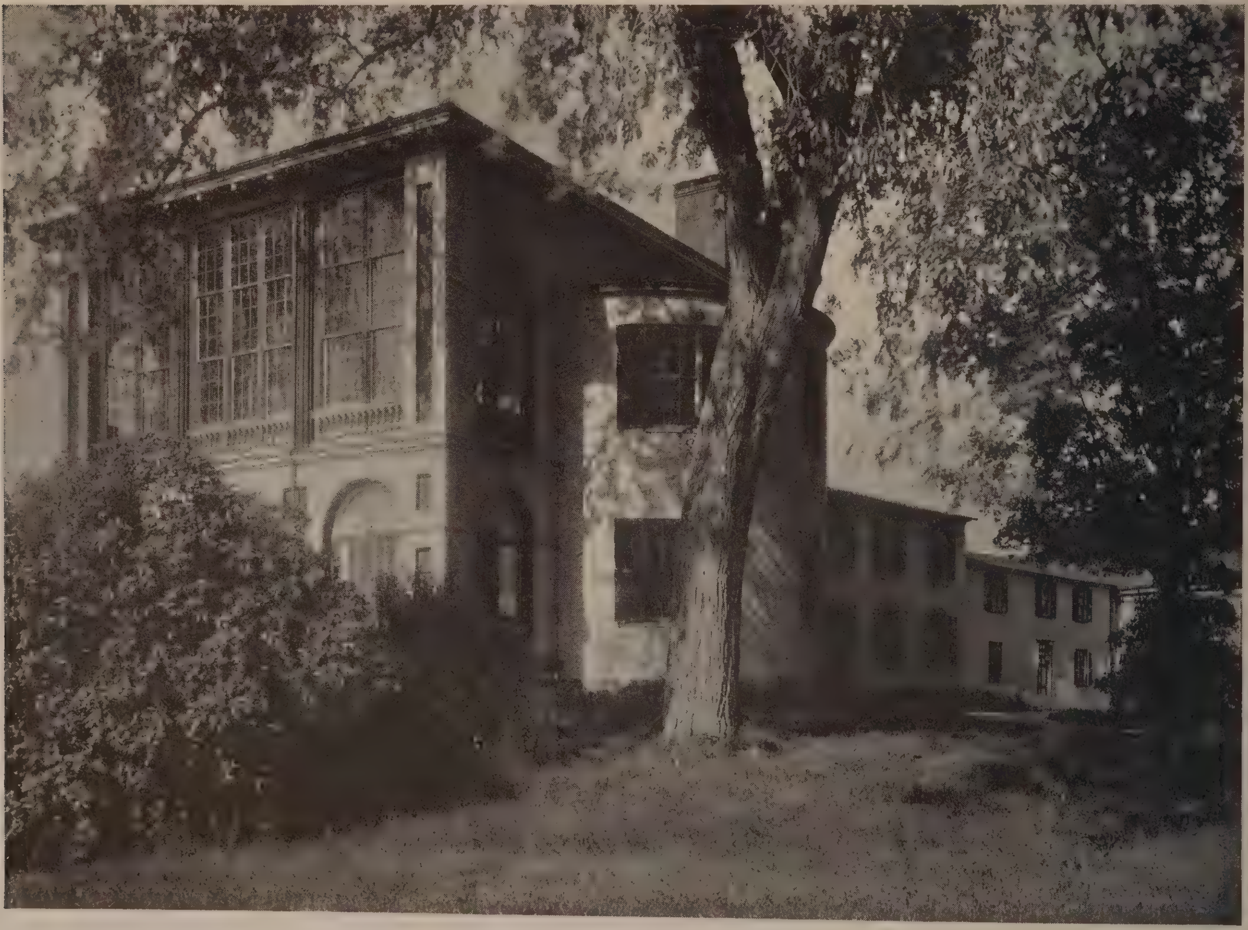
Returning now to the first house built by Silas Lee, we can perhaps understand better the unusual



Flying Staircase in Tucker House

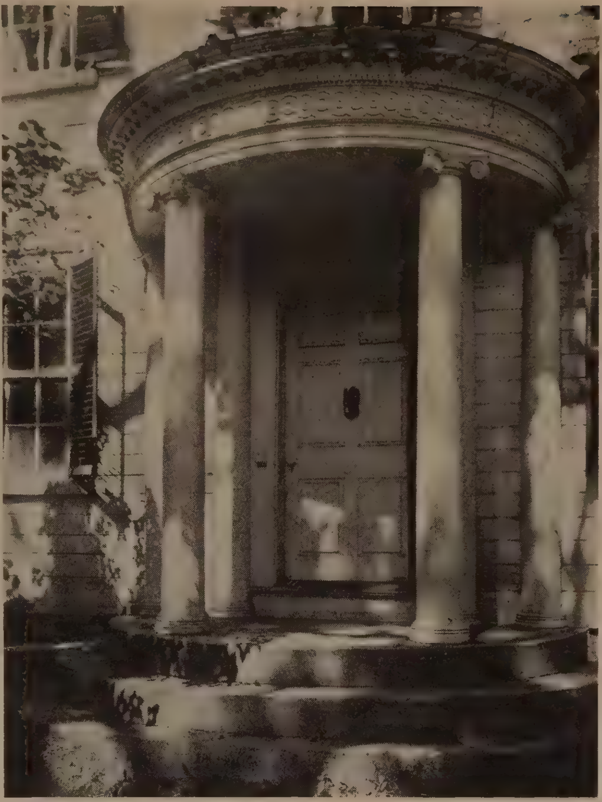
combination it represents of Colonial features—survivals of the early eighteenth century—and others showing post-Revolutionary, classical tendencies. I have an idea that the local builder followed his well thumbed carpentry books except when his employer took a hand and suggested something newer, such as the rounded portico. The house is a patriarch for dignity. So far as the engaged pilasters on the facade are concerned and the brick belt course at the side terminating before reaching the corner, the building might have stood on the site some 50 years before Lee bought the land. But the rounded portico could not have been earlier. Bulfinch used a semi-circular portico with free columns above an arcaded basement on the Barrel house, finished in 1792. Samuel McIntire sketched the facade and adapted the rounded portico on a small scale to the doorway of the Nathan Read house in Salem, dated 1793. (See p. 221, Kimball.) That, so far as is known, was the first of its kind in New England.

There is a possibility that the Smith house was built without a portico, but the plainness of the door itself would imply that in a house of this impressive type a portico enrichment of some sort was part of the initial plan. It is quite possible that the portico was not finished until a year or more after the house was started, as local buildings progressed slowly. I

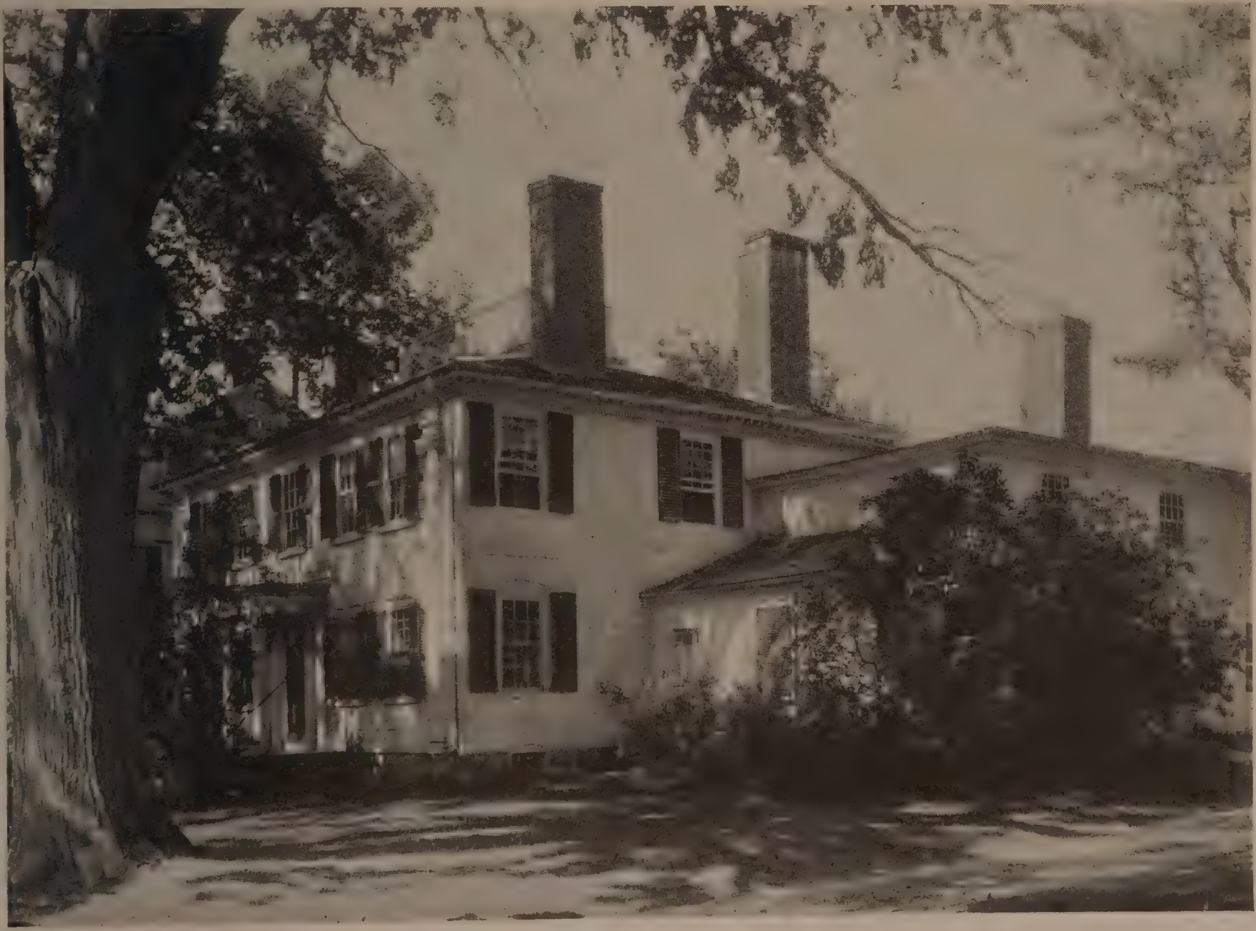


Tucker House, Wiscasset, Me.
Built by Silas Lee about 1808

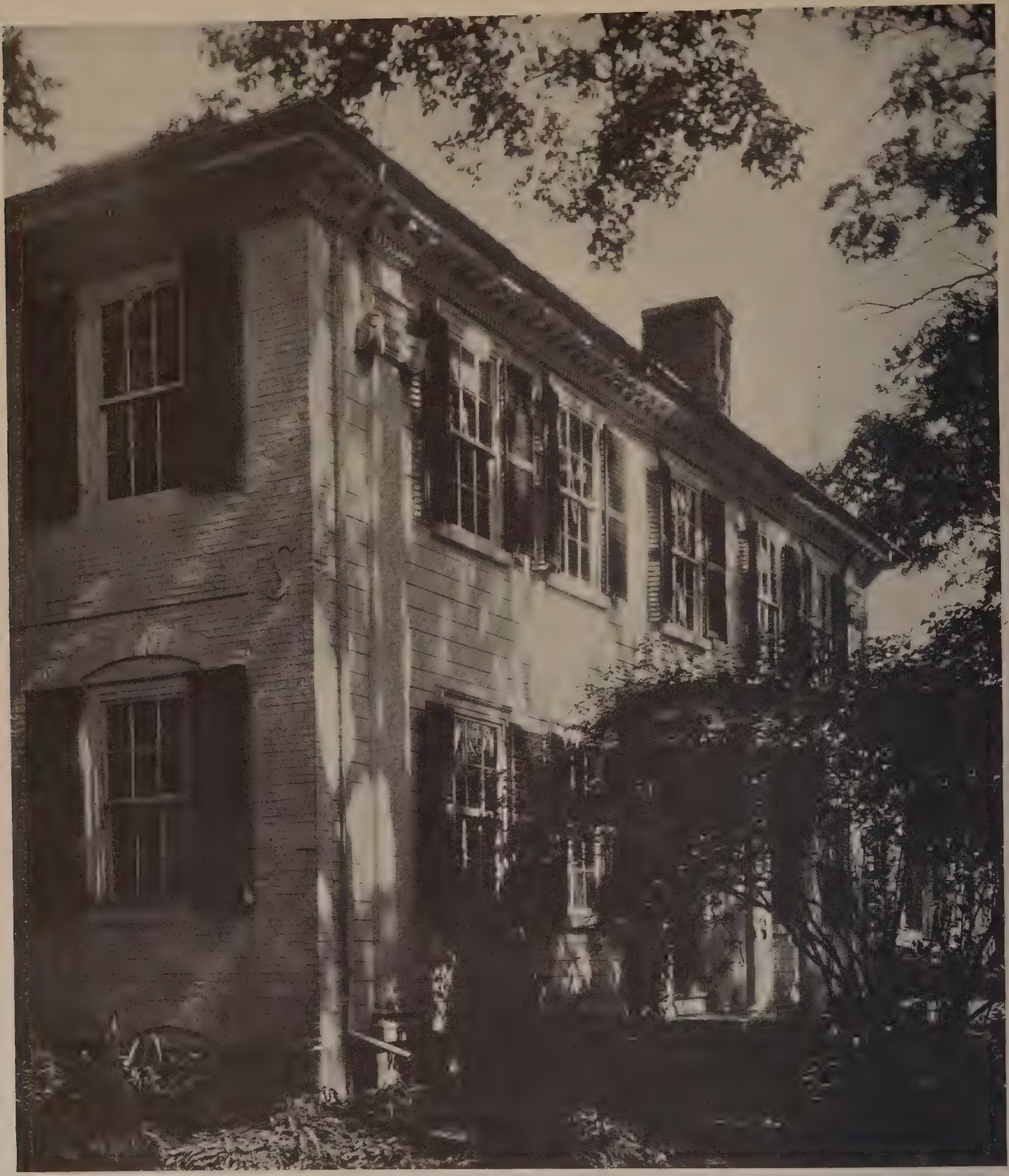
consider it a suggestion for modernity by Lee or by a friend who had seen the Barrel and Read houses, since no later owners or tenants of the house are known to have made any changes, and since rounded porticos are not to be found in the more familiar builders' guides available in 1792. I have looked through William and James Pain's English publications for instances of use of the guilloche appearing on the portico frieze. It is done in the heavier style that preceded the Adam refinement of similar classical motifs. Thus in "The Builder's Companion," published in London in 1758 (Plate 51), among other ornaments for the bases and sub-bases of pediments, is this identical guilloche. In a simpler form it is used on the belt course between the first and second stories in a design for a gentleman's house in William and James Pain's "British Palladio," published in 1786 (Plate 5). A year later William Pain published the original simple design of our portico, much elaborated with beaded mouldings decorating the twisted bands and with various types of rosettes in the centers of the circles. (See Plate 27, "Carpenter's and Joiner's Repository.") It is interesting to find that the large scaled fret on the soffits of the arches in the living room is also among the designs in the 1758 English edition of "The Builder's Companion" in which the guilloche appears. I take it that these two motifs represent the Georgian version



Entrance Detail, Governor Smith House



Governor Smith House, Wiscasset, Me.
Built about 1792 by Silas Lee

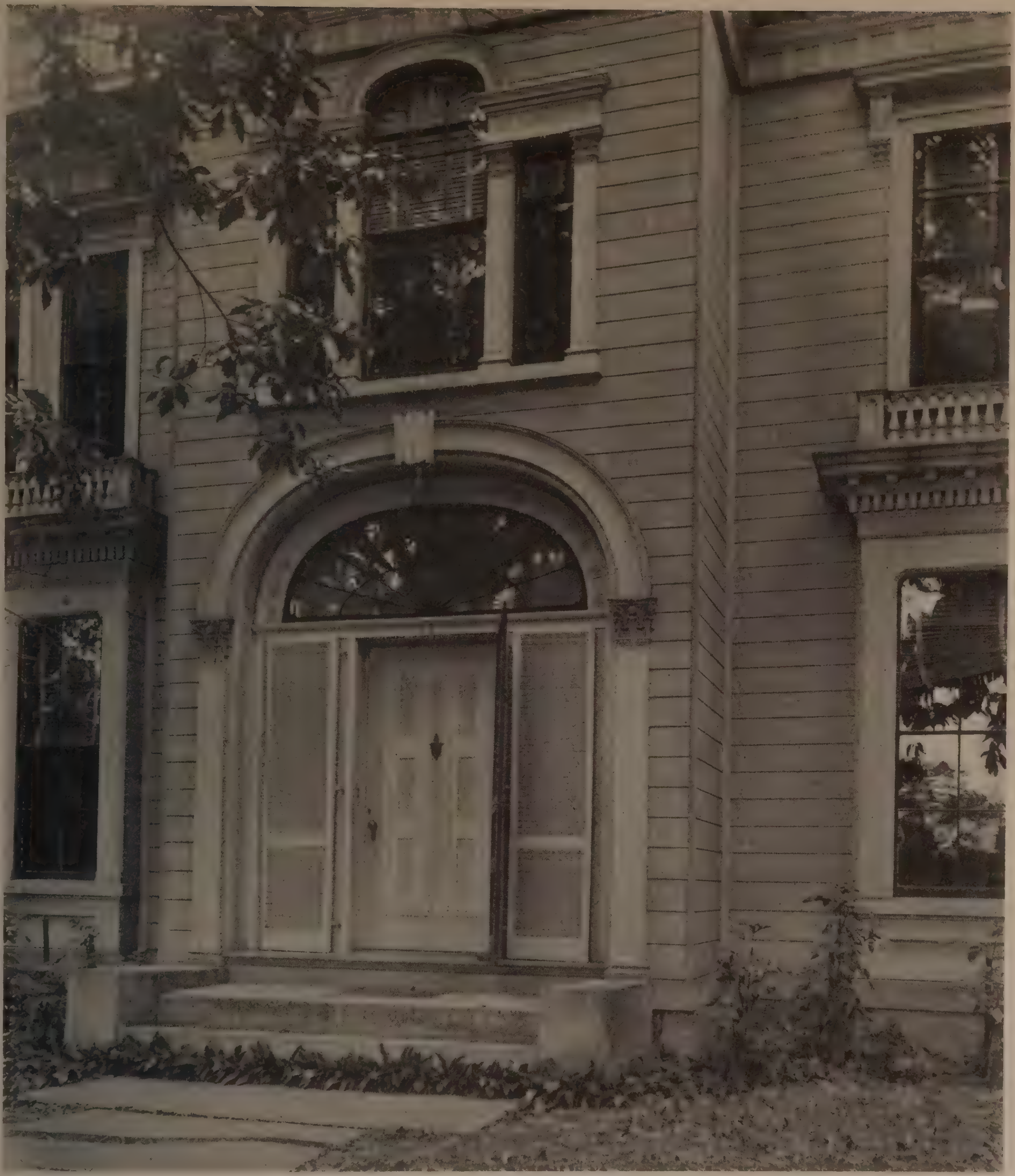


Front View, Governor Smith House, Wiscasset

of Palladian details, whereas the dentil moulding below the console brackets all around the room in the Smith house shows the influence of the fine scaled Adam details that appear in the later Pain publications and in Benjamin. Adam, too, is the mantel treatment. End blocks and sunken panels belong to the innovations as introduced by Bulfinch and Mc Intire and codified by Asher Benjamin in his builders' guides. The general architectural treatment of the living room, however, recalls the pre-Revolutionary period, since fireplace and window recesses at either side are framed with an order as in the Royall house at Medford, built before 1738, and in the Jeremiah Lee house at Marblehead, dated 1768.

The stairways and balusters are distinctly in the old style that held throughout the colonies after appearing in the Hancock house in Boston, dated 1737. In houses showing incoming Adam tendencies, as here, one would expect curving stairways and plain balusters, but these are later survivals of the much older turned balusters and spiral newels.

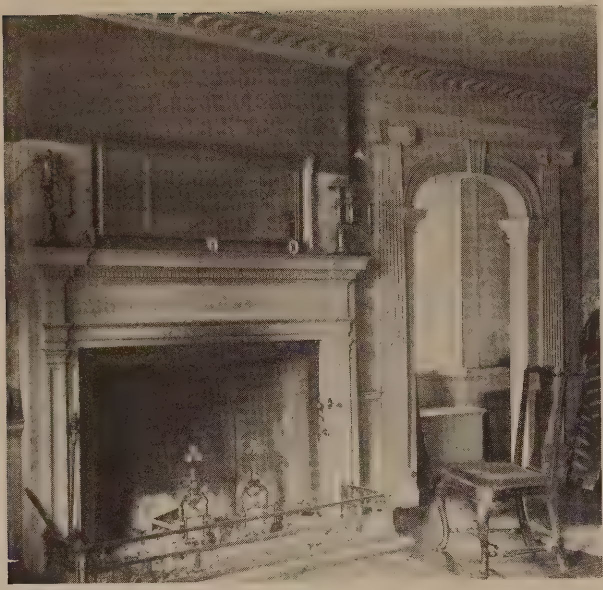
The Carleton house, across the street from the



Entrance, The Carleton House, Built about 1804 by Joseph Tinker Wood

Smith house, owes its Victorian character to alterations made about 65 years ago. The house was erected, however, soon after the purchase of the site in 1804 by Joseph Tinker Wood, who sold the house in 1807 to Moses Carleton, Jr. (one of the wealthiest shippers in town) for a cargo of rum valued at $12,000. Mr. Wood employed as his builder a man who built a similar house in Damariscotta, across the river, and by comparing the other house (which has never been altered) with the Carleton house, I am able to point out what I think were the original features,—the colossal pilasters at the corners of the facade, the cornice, with its Adam detail, and the central projection with the doorway and Palladian window above, these not altered in later building.

The Tucker house as built by Silas Lee around 1808 had a pedimented front with round wings at either side, flush with the facade. It was said to have been copied from an old house in Dunbar, Scotland, by the Scotch architect employed by Judge Lee. I doubt if the Dunbar house could have been older than 1750, for both the round projecting bays

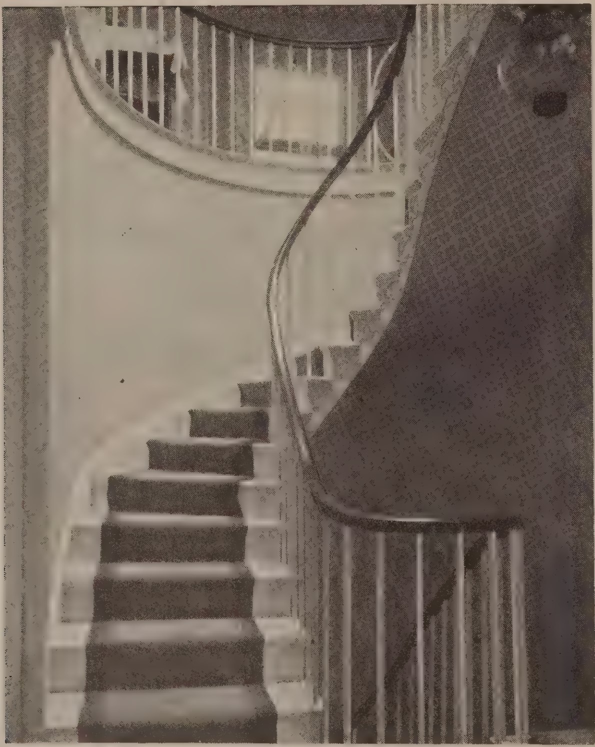


Mantel, Governor Smith House

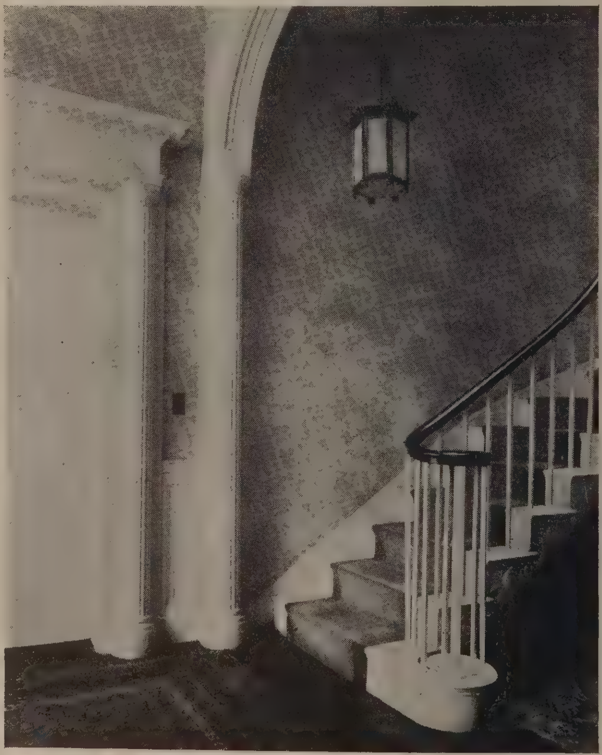
and the pedimented front were new features in England then. The present Tucker house, as altered around 1860, shows an arcaded lower piazza with a Victorian form of supporting pilaster above. The history of this addition makes an interesting story. It seems that Captain Tucker, the father of the present owner, had spent much time in Charleston, S. C., where he was a ship chandler, and had admired the open piazzas of such houses as the Ravenel residence there. (See p. 182 of "The Colonial House" by J. E. Chandler.) Like many other independent-minded travelers, he wanted to incorporate what he had seen in his own home. So he had this projecting piazza built on in front and the roof changed to extend over all, but for his model he used the state capitol at Augusta, which was designed by Bulfinch and finished in 1832. The severity of the winter gales off the bay below the house made it necessary to enclose the open galleries soon after they were built, and that accounts for their present form. Inside there is a beautiful flying stairway, built on an ellipse. This too is said to have been copied from the Dunbar house and, if so, is another indication that the Scotch model was not of much earlier erection than this Maine copy. An American parallel is the stairway of the Nathaniel Russell house at Charleston, S. C., built in 1811 (See p. 151 Smith).

The Sortwell house has a fairly romantic past. I quote Mr. Patterson for the facts: "Construction began about 1807-8. It was probably occupied by the first owner, Captain William Nickels, a retired master mariner, as early as the latter year. Captain Nickels suffered reverses of fortune during the distress brought on all merchants and shipowners from Maine to Georgia by the non-intercourse act, the embargo, and the War of 1812. He died in 1815. The house passed to the ownership of a close friend, and a few years after the death of Captain Nickels it was converted into a tavern and continued to be used as a public house until 1899, when it was purchased and occupied by the late Hon. Alvin F. Sortwell, whose family now occupies it during the summer months, a use for which it is eminently well fitted."

The facade combines a number of features, any one of which might have sufficed for Bulfinch and McIntire, who were seeking abstract classical balance of form and the purification of classic motifs as derived from Adam. Thus in Bulfinch's design



Upper Stairway, Sortwell House

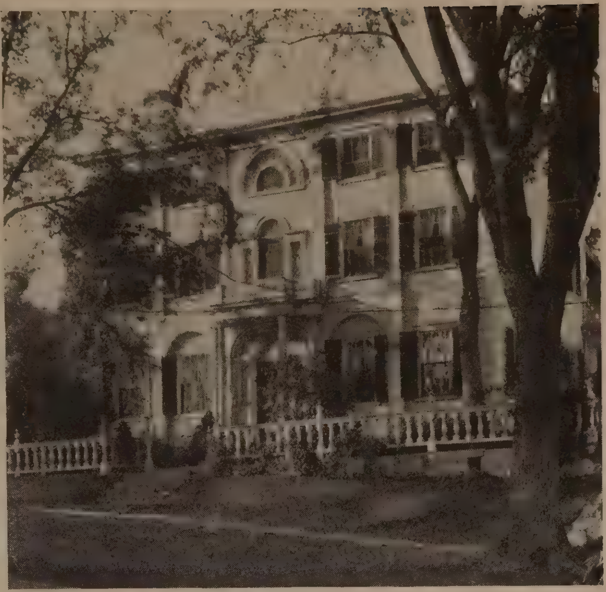


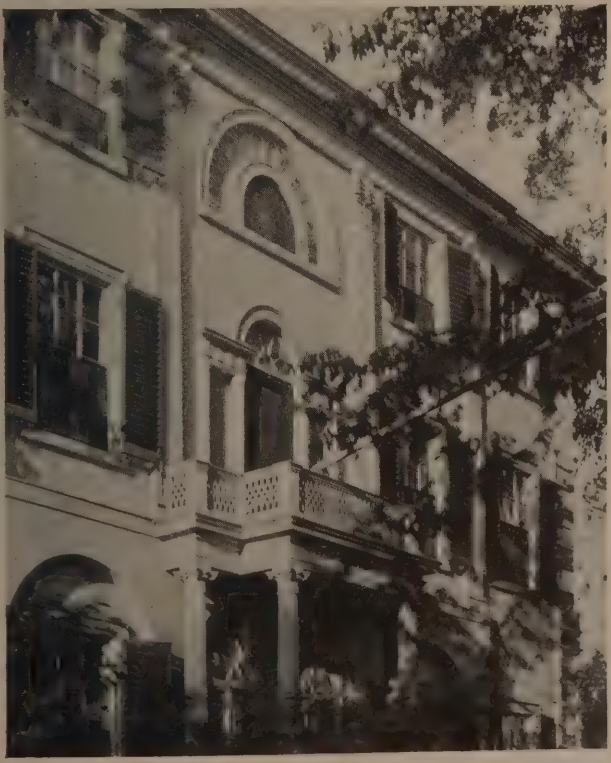
Stair Hall, Sortwell House

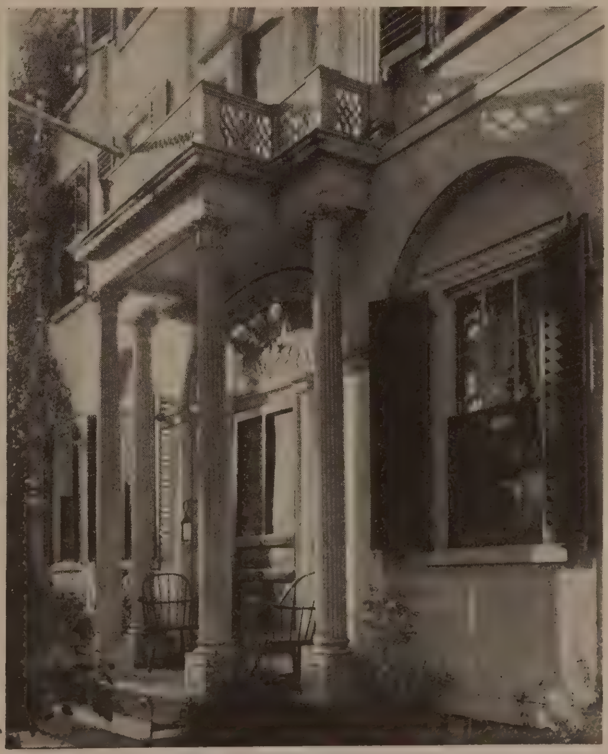
for a city house after 1796 (See Fig. 172 in Kimball) the central features of door, Palladian window and half-round window in the third story are enough. In the Barrel house (See Fig. 184 in Kimball) Bulfinch introduced to New England the arcaded treatment of first story windows supporting an order, after the manner of the fine English country houses designed by James Pain. McIntire's Salem houses show many variations of porticos as the main enrichment of his facades. But in the Sortwell house, as in the Craft house in Roxbury (built in 1805), we see a combination of all these features with pleasing emphasis on the central axis through a slight projection that shows in the illustration, not far from the upper right hand corner, by a break in the cornice.

It is the academic treatment of the central element which reveals the progressiveness of the local builders. Boston had known blind arcades supporting pilasters only since the completion of the Barrel house in 1792, and Portland houses do not show like treatment before 1805, under the influence of Alexander Parris, a follower of Bulfinch. So Wiscasset at this time was in the vanguard of Maine architectural leadership. If a fire along the wharves had not destroyed what is said to have been an earlier prototype of the Sortwell house, we should, perhaps, have further proof of this interesting, little known fact.

In contrast to the unified architectural scheme of the facade, there is no conformity evident in the decorative details. Against plain matched boarding are patterned in an exuberant spirit diverse motifs,—Greek rosettes on the eaves cornice, Gothic balustrading on the portico, a free adaptation of classic grooving on the pilasters, and what may be a purely American type of fanciful mouldings. Happily, the builder's nice sense of scale and space relations holds them all together. The wooden fence is a recent addition. An older photograph shows the iron fence with the more delicate sheaf design in accord with the many classical details of the carving. Many fine houses of the period of the early republic are marred by fences that belong to the heavier Colonial style. The story goes that dollar bills pasted over the front of the house would not have paid for the woodwork. A professional architect might not have allowed this free indulgence of the carver's skill. The mouldings


Sortwell House, Wiscasset
Built about 1807-1808


Facade Detail, Sortwell House

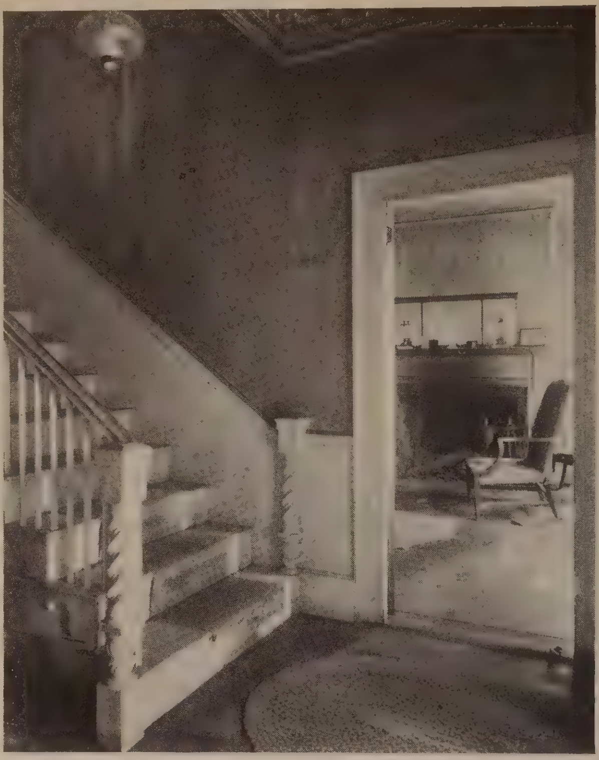

Entrance, Sortwell House

in particular are most ingenious. We have everything, it seems, from the miniature Adam festoons, gauged in the moulding over the frieze of the portico, to the split dentils in the architrave of the third story central window, which give the effect of Greek fretting. There is fine herring-bone reeding in the sunken panels of the door pilasters, and the interlacing circles of the lintel suggest a design for a balustrade in Asher Benjamin's "New System of Architecture" of 1806. (See Plate 32.) The elliptical fanlight, which was never seen before the Revolution, has here a familiar design for the leads, perhaps taken from the same book. (Also Plate 32.) As compared with Salem houses of about this period, the Sortwell fanlight betrays a kinship to the earlier half-rounded form, and less abandonment to the flattened proportions of the Salem work. (See volume on McIntire by Cousins and Riley.)

Inside the Sortwell house it is the hall and stairway which demand special attention. Built in the oval shape favored by Bulfinch, the hall allows the stairs to ascend in a curving course about an elliptical well capped by a projecting skylight. Such stairs in Pain's plans of English country houses, are described as "best stairs." Detail of the arch over the first step shows the half-round columns supporting an arch with delicately paneled soffit with a beaded edge, repeated on the string of the staircase. At either side of the stairs are the square living and dining rooms. The doors have refined architraves, and dignified half-round pillars supporting a frieze and cornice much in the manner of McIntire's work. The door paneling, as well as the paneling of the arch soffit over the stairs, would serve to date the house as belonging to the period of Adam influence, derived through Asher Benjamin, even if there were no other indications.

People like to think that there is some connection between rope moulding and the nautical experiences of the owners of seaport houses in which it is often employed. One of the doors inside the Sortwell house shows an effective use of it. We find this "cabling," as Pain calls it, illustrated in his many London publications from 1758 on, and it was incorporated in the American editions as well as in Benjamin's books for provincial builders. It was not therefore peculiar to seaport towns or ships' carpenters, however skillful and ingenious they were in using it, and there are many instances of such use.

The newest of the buildings in this group is the brick court house erected in 1824 on the village green to replace the wooden structure mentioned in the Rev. Alden Bradford's description of Wiscasset in 1801. Although removed in its extreme simplicity from the public buildings of Bulfinch, it represents a common type derived from his work and reveals marked beauty of balance and proportions.


Stair Hall, Governor Smith House

There are a number of other houses in Wiscasset somewhat similar to those shown here. To visit the town is to gain a fresh impression of what a community can be when permeated by a fine spirit of citizenship seeking creative expression in its architecture. On the whole, Wiscasset preserves buildings representing several phases of classic influence which prevailed before the era of the Greek revival. In particular, the Smith house, the Tucker house, and the Sortwell house show an "awareness" of advanced contemporary styles unusual in a town situated at "this great distance from the center of the Union" We have seen that they owe as much to Bulfinch, perhaps, as to any one American designer, but that does not belie their noticeably outstanding quality — individuality.

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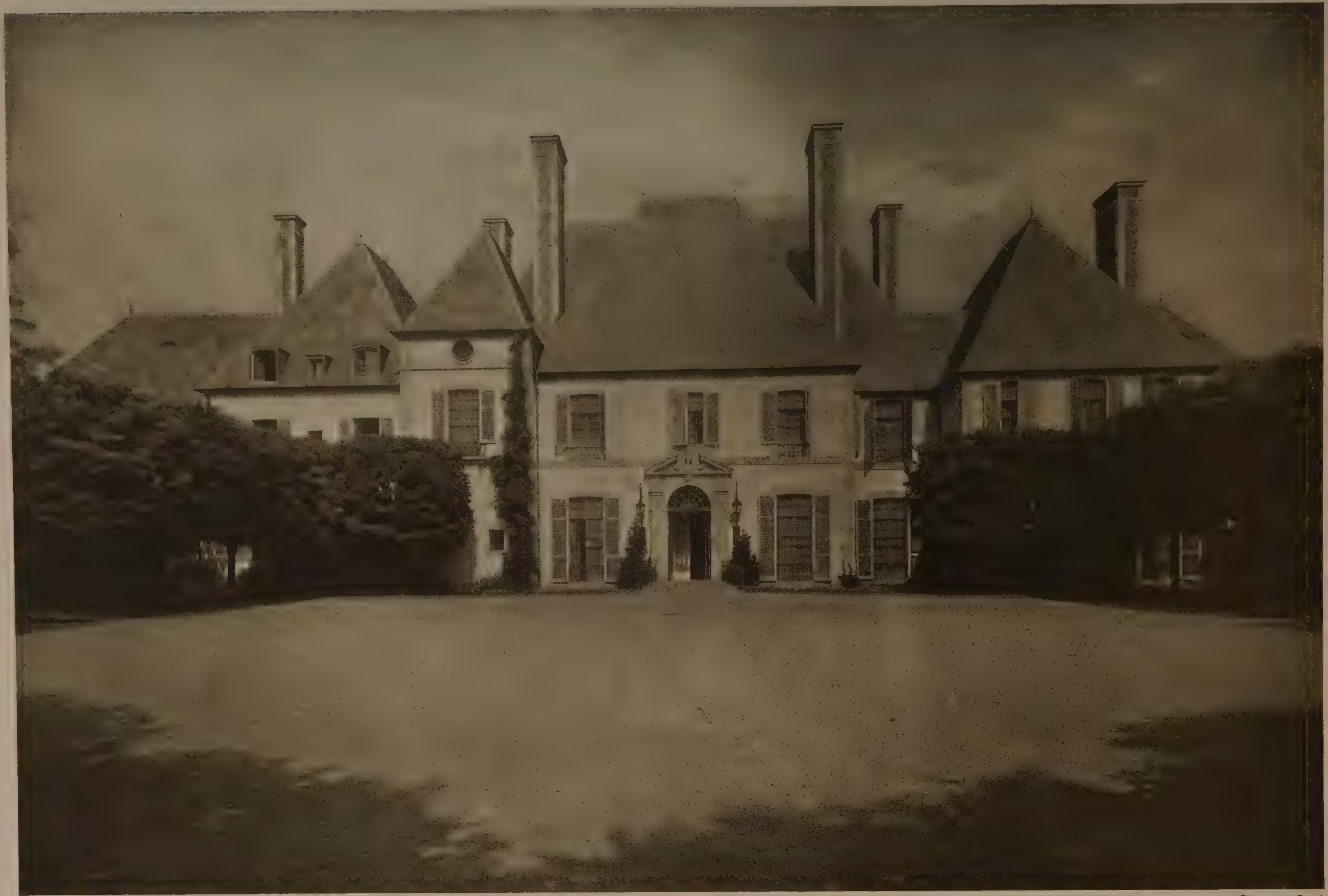
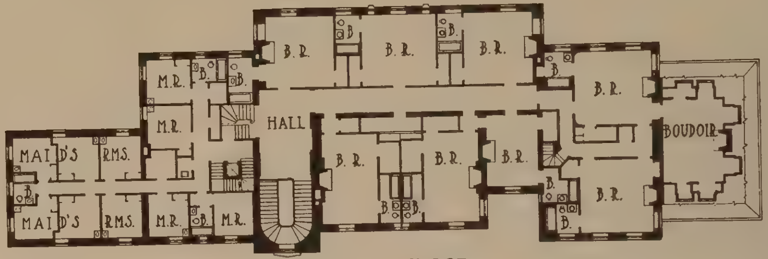


Photos. John Wallace Gillies

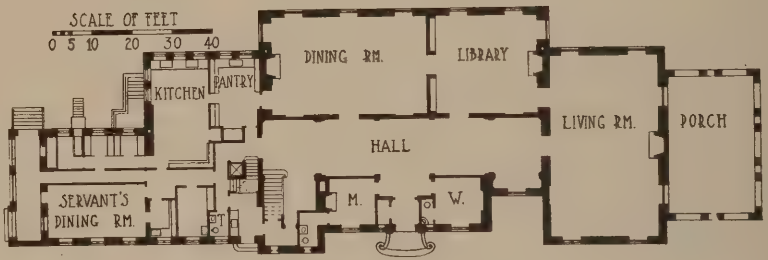
Plans on Back

HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



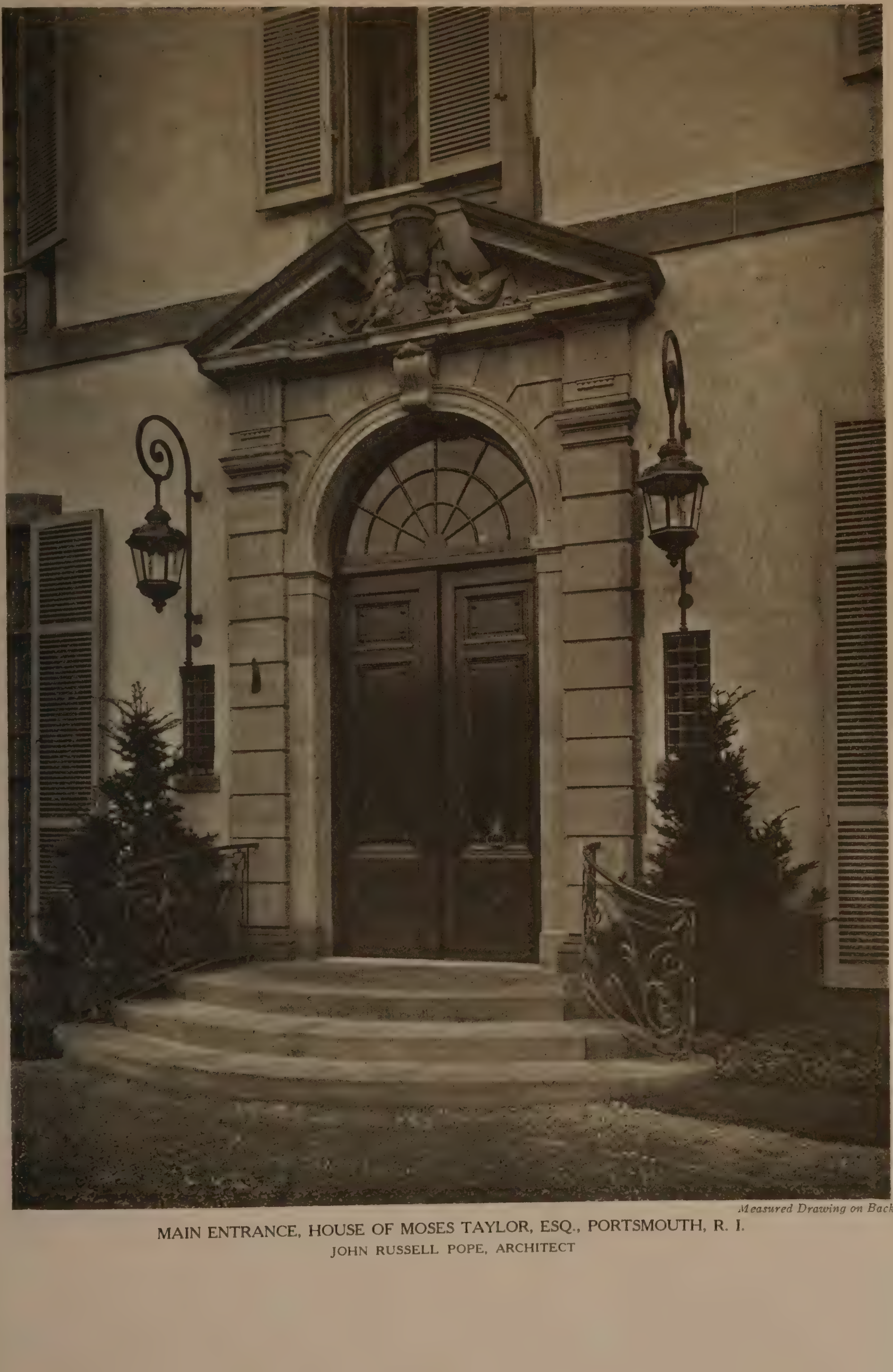
SECOND FLOOR



FIRST FLOOR

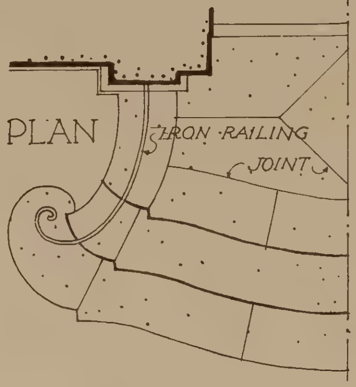
PLANS, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



Measured Drawing on Back

MAIN ENTRANCE, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT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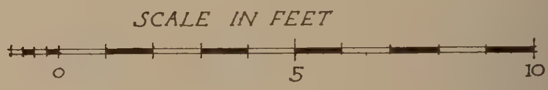
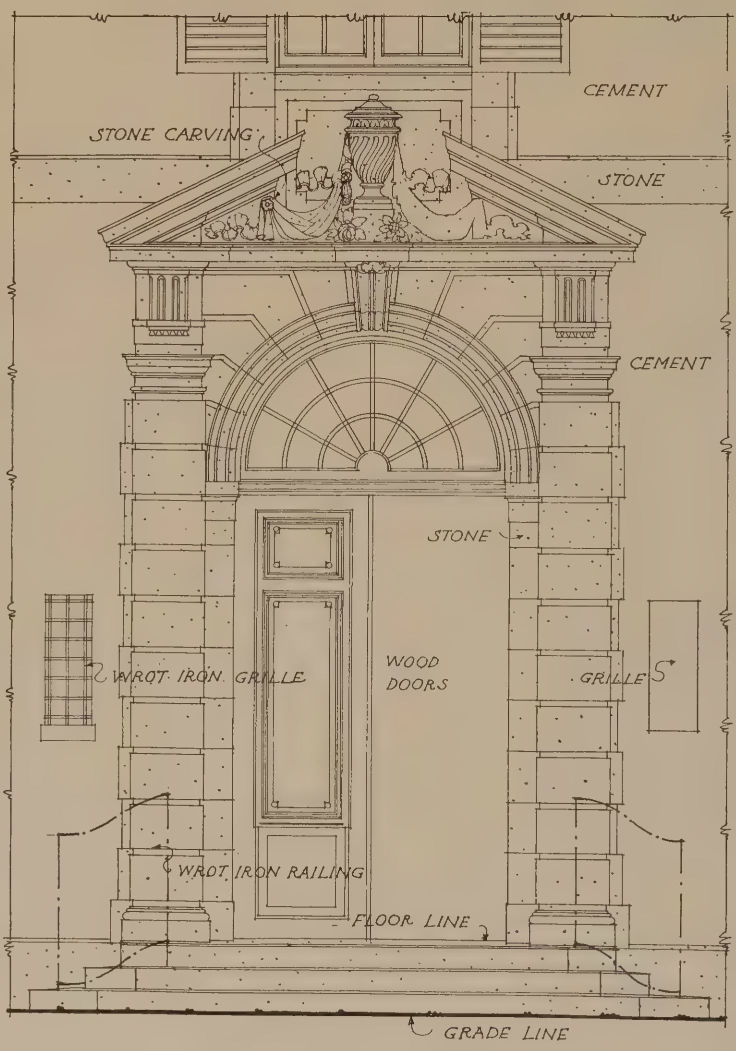
· ENTRANCE DETAIL ·

JOHN RUSSELL POPE, ARCHITECT
NEW YORK CITY

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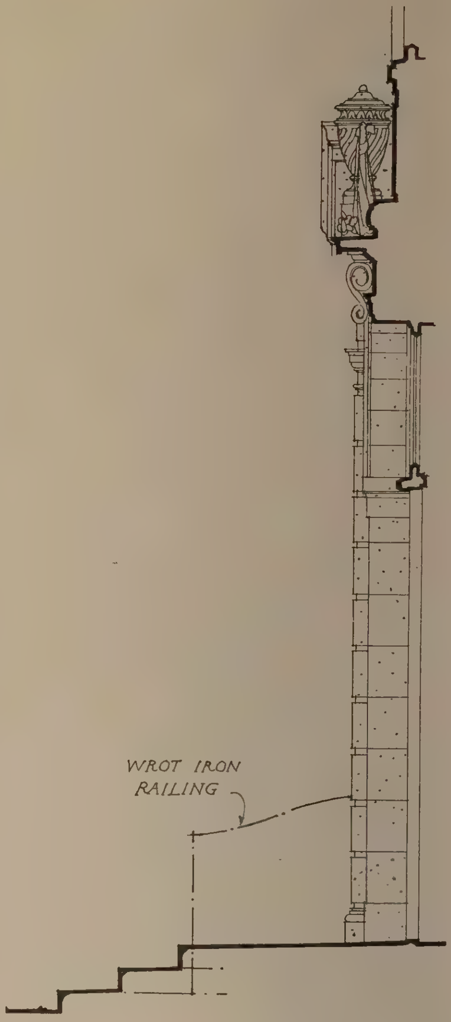
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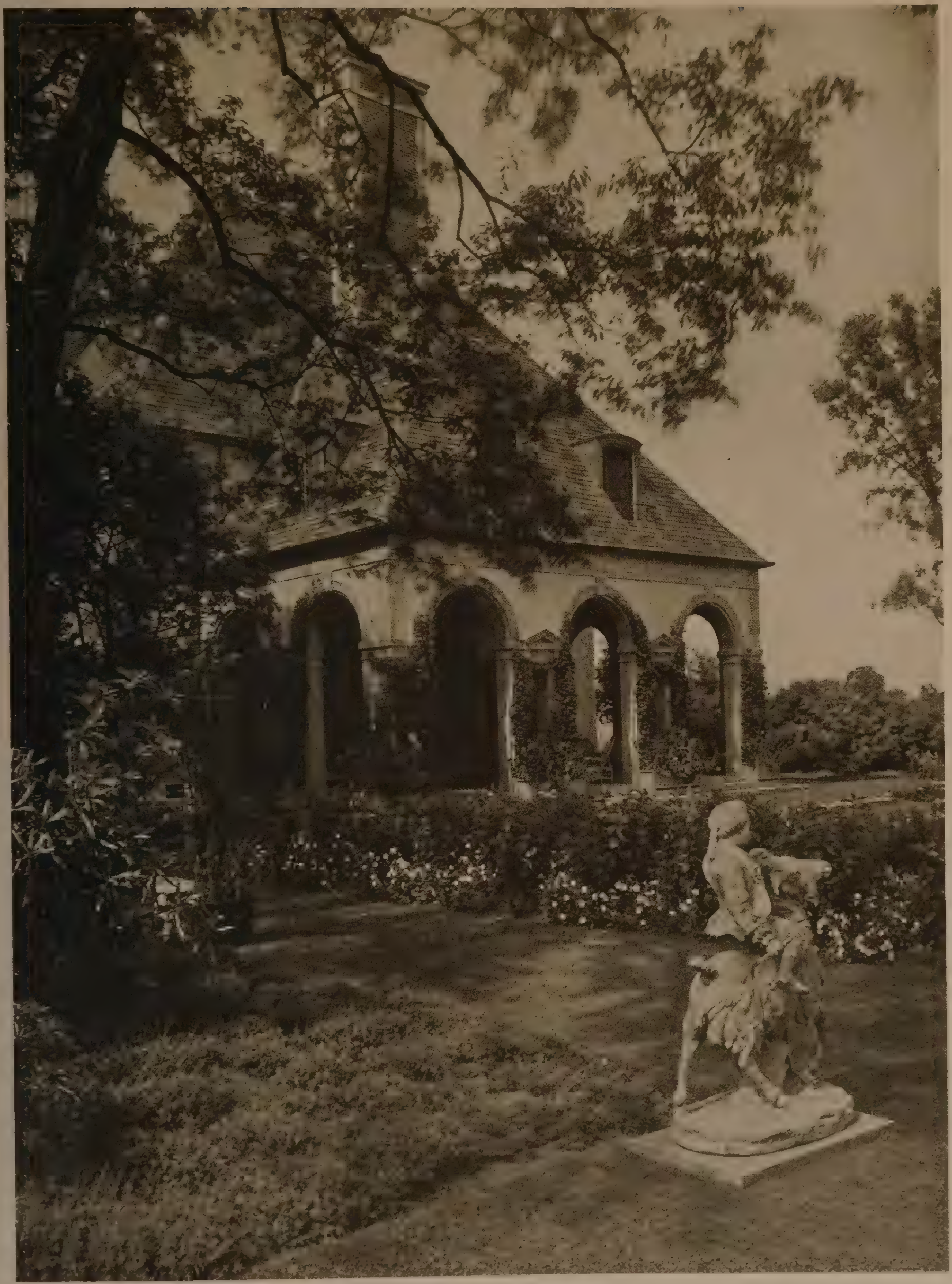
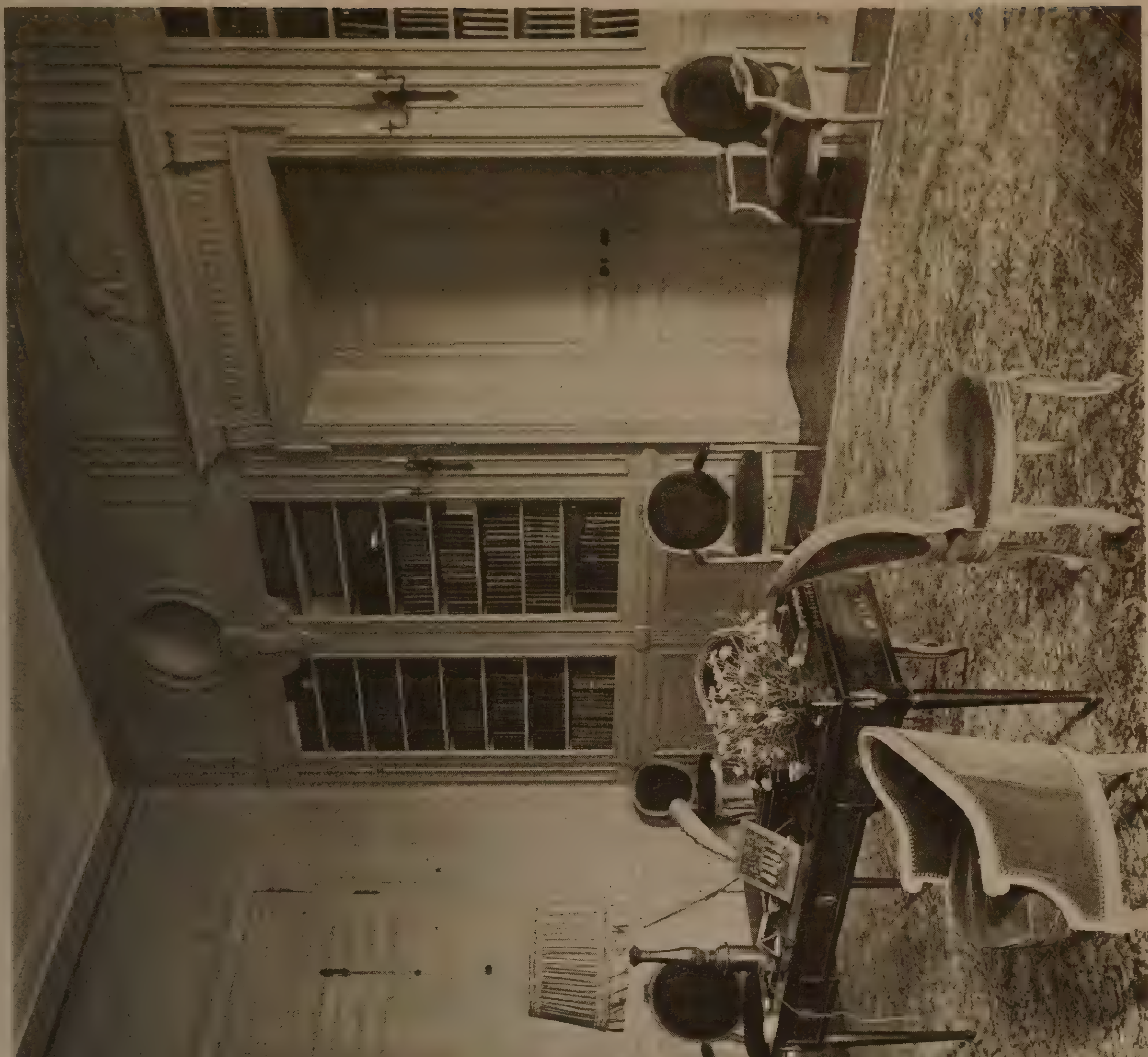


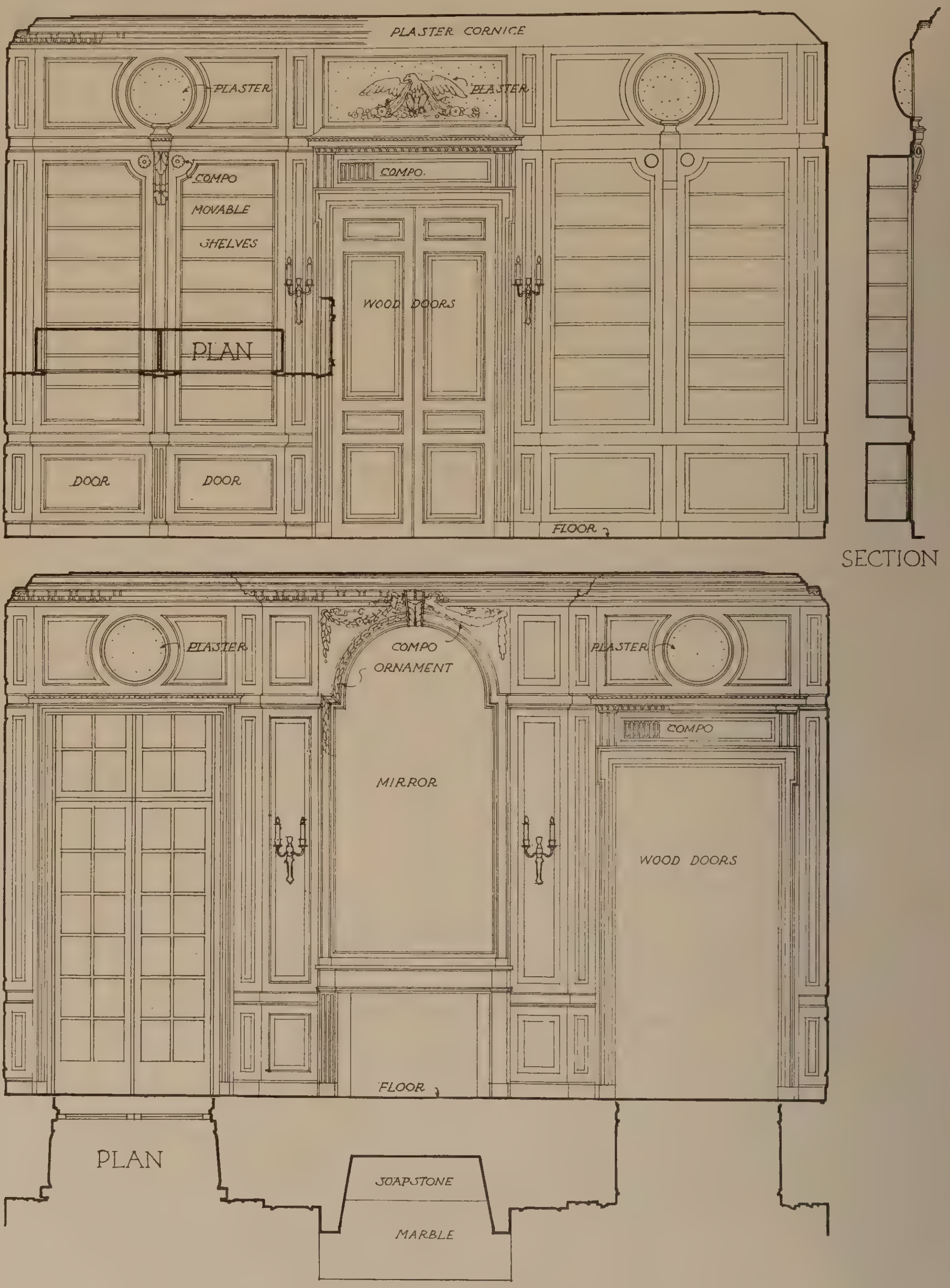
THE VERANDA, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT



Measured Drawing on Back

LIBRARY, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



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JOHN RUSSELL POPE, ARCHITECT, NEW YORK CITY

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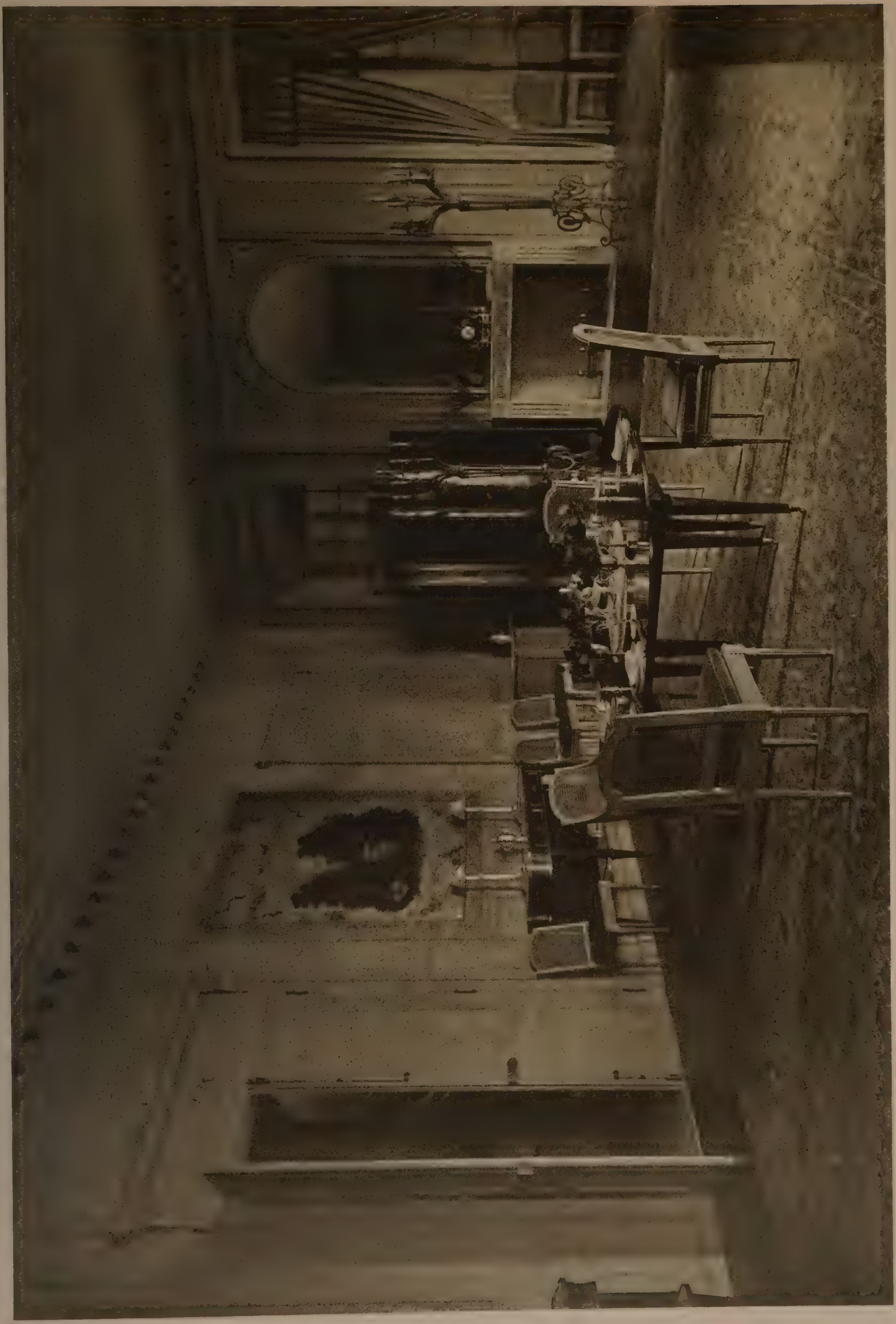
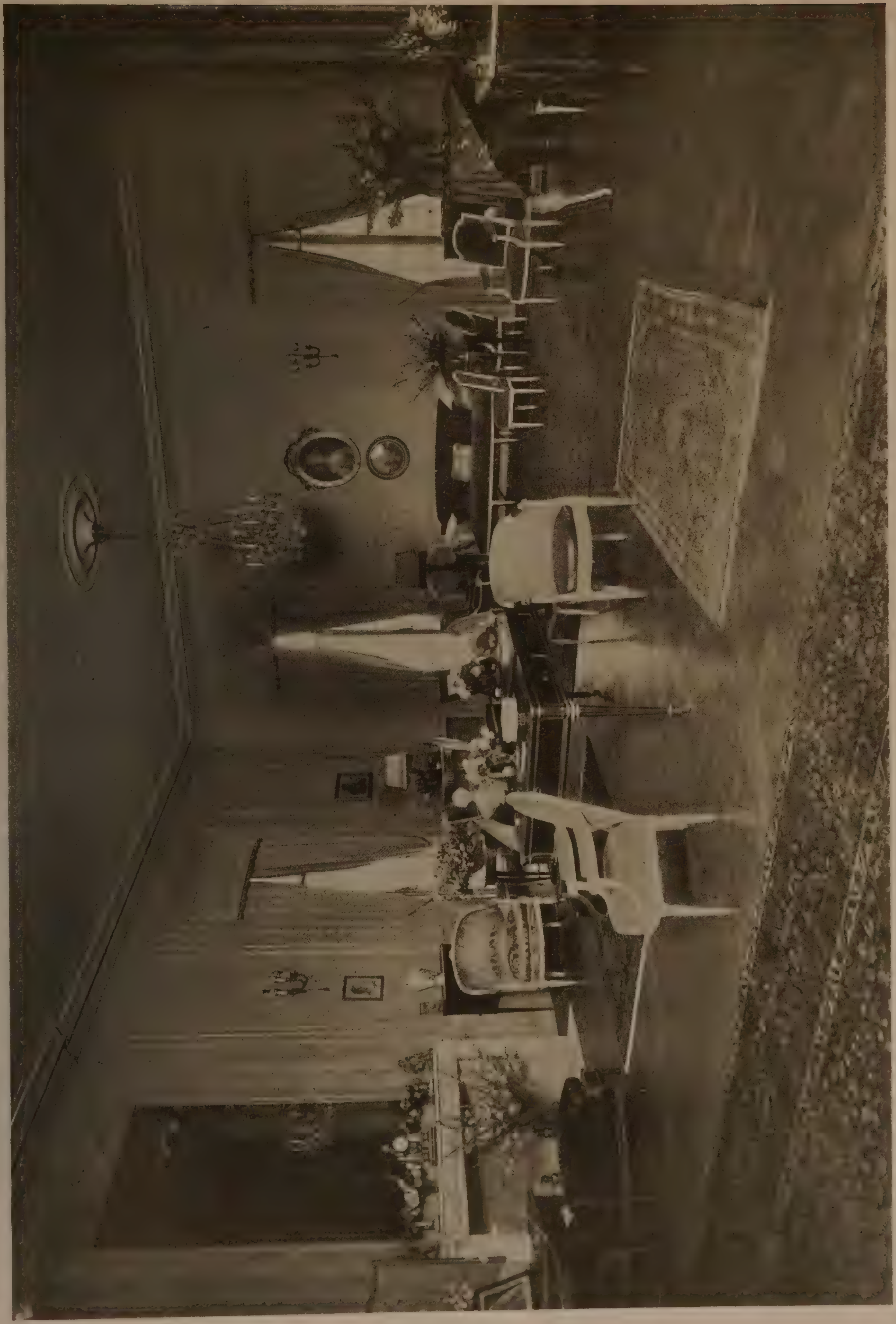


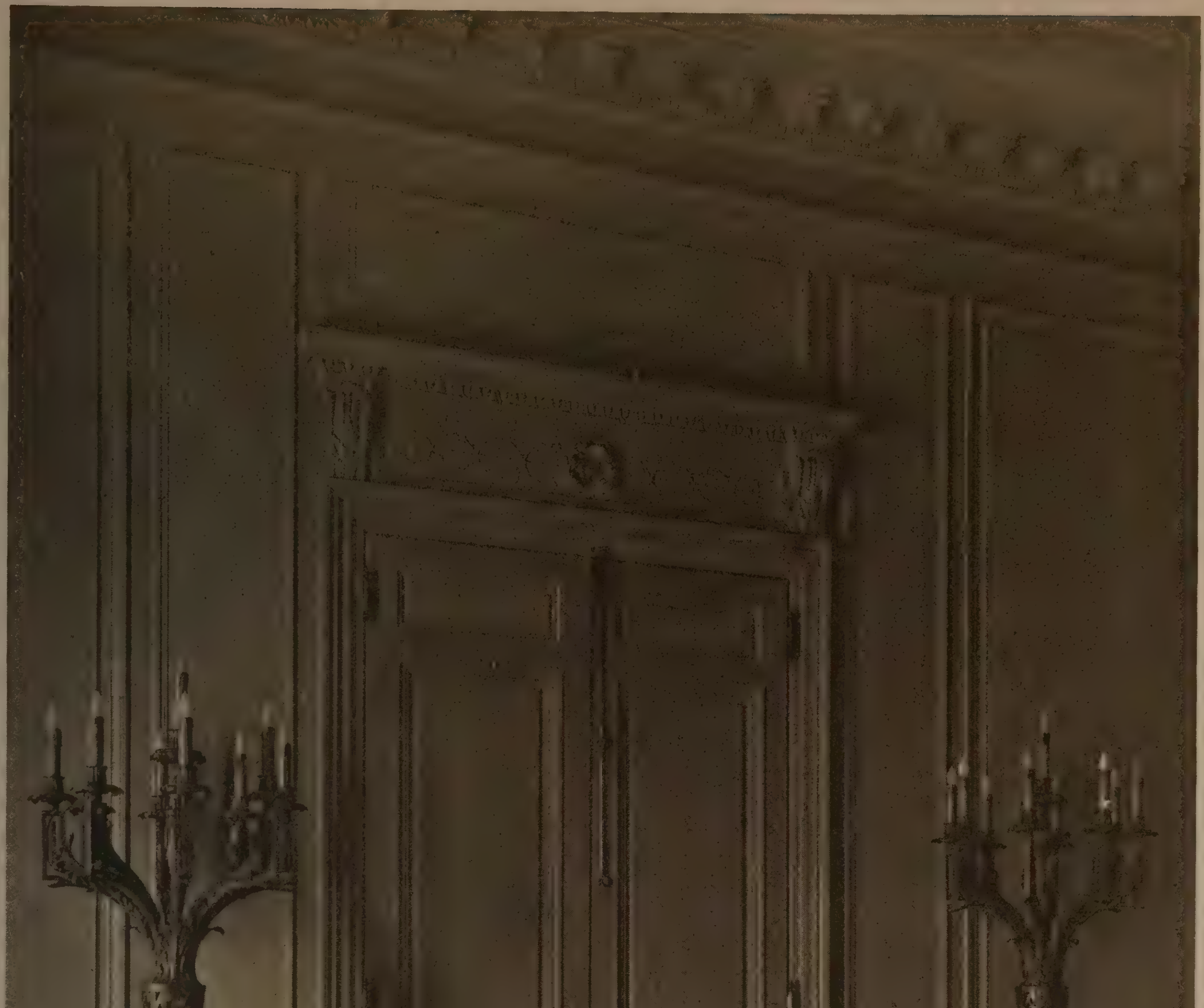
DINING ROOM, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



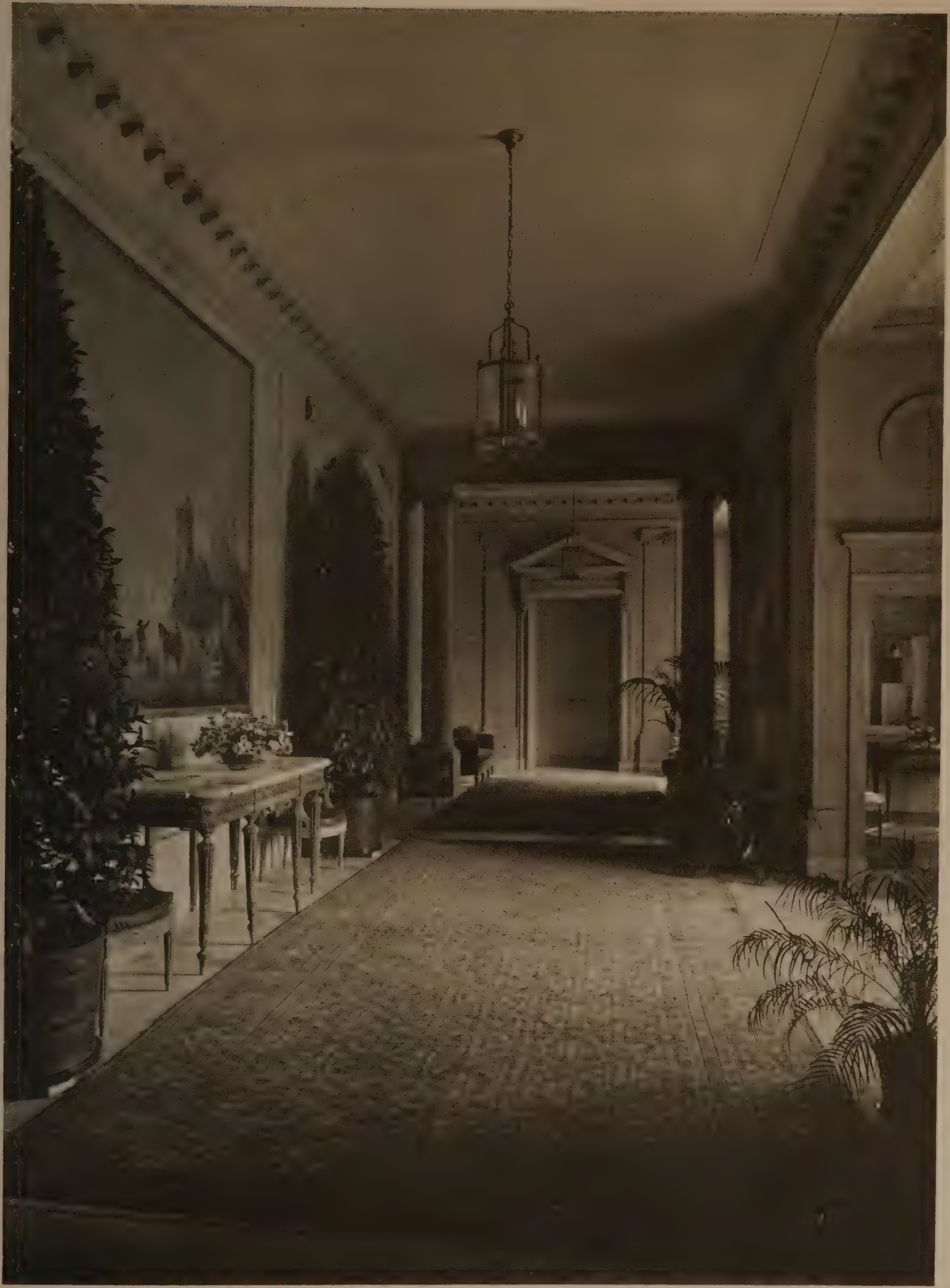
LIVING ROOM, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



DOORWAY IN DINING ROOM, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.

JOHN RUSSELL POPE, ARCHITECT



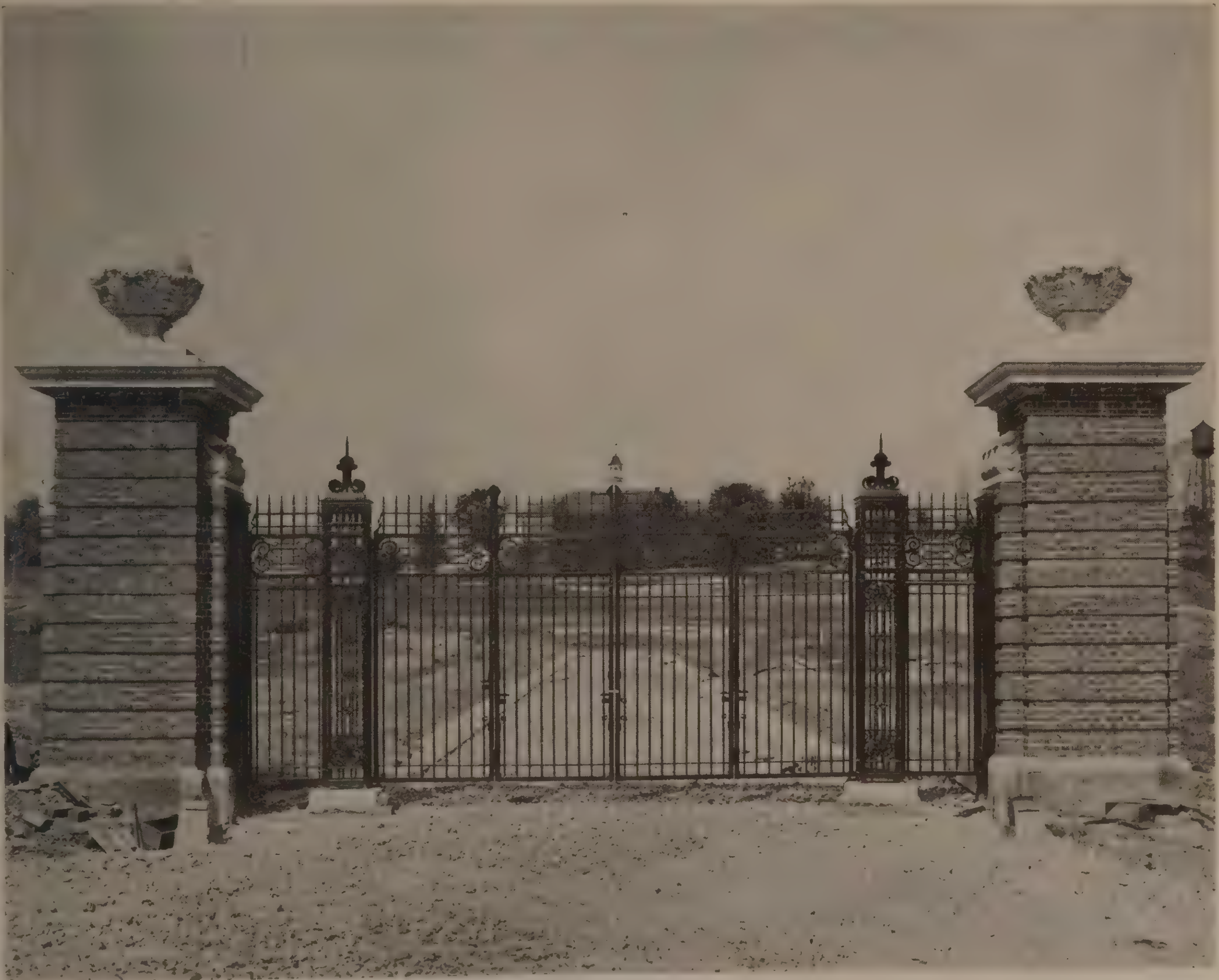
HALL, HOUSE OF MOSES TAYLOR, ESQ., PORTSMOUTH, R. I.
JOHN RUSSELL POPE, ARCHITECT

Shady Side Academy, Alleghany County, Pa.

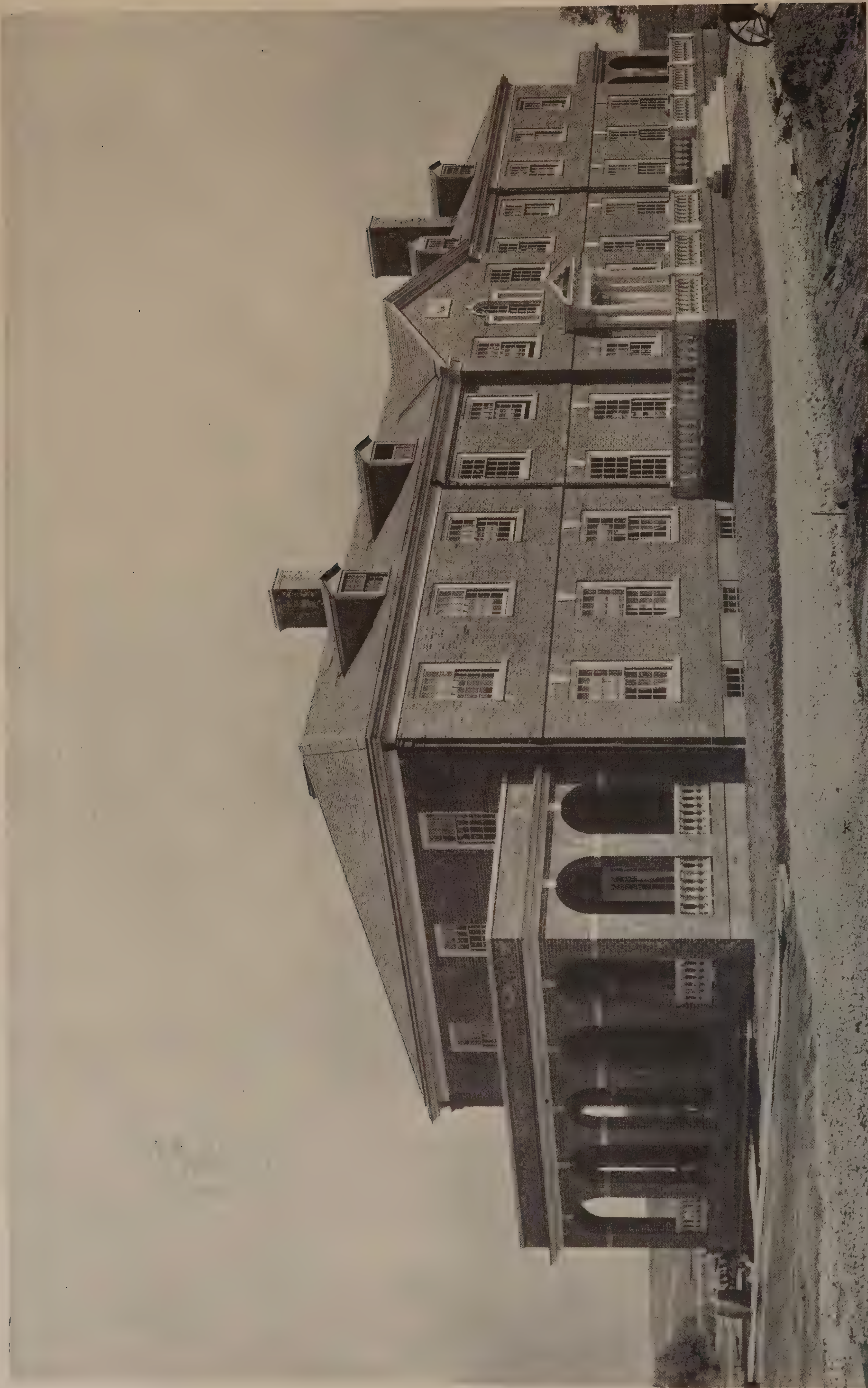
E. P. MELLON, Architect

DURING the last few years, as population in America has increased and wealth has been more evenly distributed, more and more parents have found it possible to send their sons to preparatory schools. This has necessitated throughout the country a gradual increase in the number of schools being created, and an enlargement of those already existing. The centers of our population have become more numerous, and along with this growth there has come also a great increase in these centers of the number of amusements and other distractions for the modern youth. Therefore, it has been found advantageous to establish new preparatory schools and country day schools in rural localities located conveniently to cities. As this tendency has been rapidly growing and the problem successfully met, the older established preparatory schools have been and are gradually adopting this idea and establishing themselves in the country, where youth has no distractions, excepting those activities, mental and physical, which are directly connected with the schools. This is now being done by many institutions.

In adopting the modern idea of a country school, and in the establishing of new buildings, etc., a great many new problems have arisen which have required for their solution the close study of both the architects and those directly responsible for the schools. Some of these problems have to do with matters of adequate and easy transportation to and from the city; the availability of sufficient water and fuel supplies; the housing and boarding of instructors and students; and the establishing and keeping of a complete domestic unit. It can be readily seen, of course, that the advantages of the country for the mental and physical development of the youth are very great. The possibilities in the way of athletic activities are unlimited, and his mind is thereby made much more adaptable and receptive. It has been proved that the mind as well as the body of a country school trained youth is very much healthier than



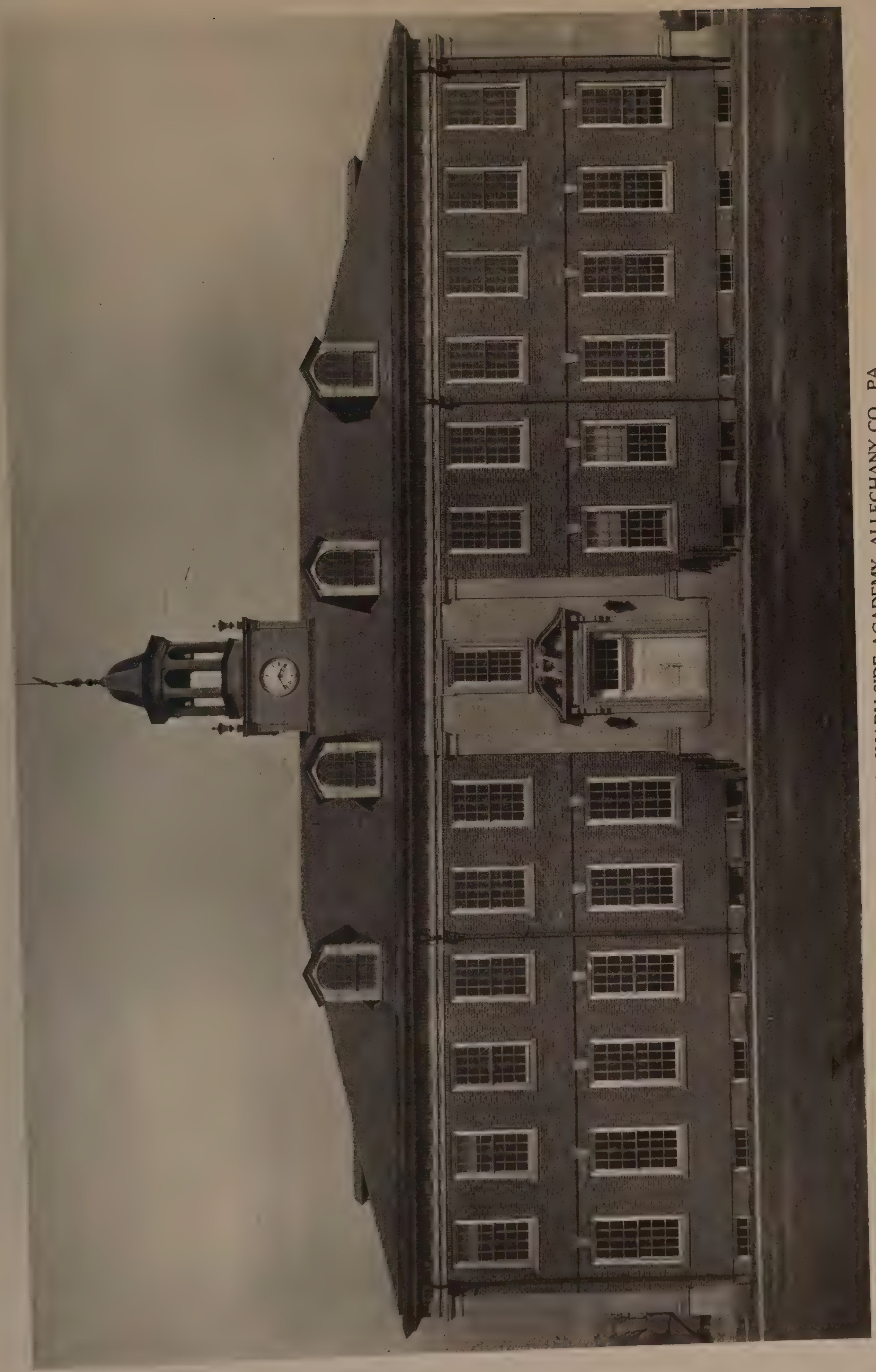
Entrance Gateway, Shady Side Academy



Photos. Trinity Court Studio

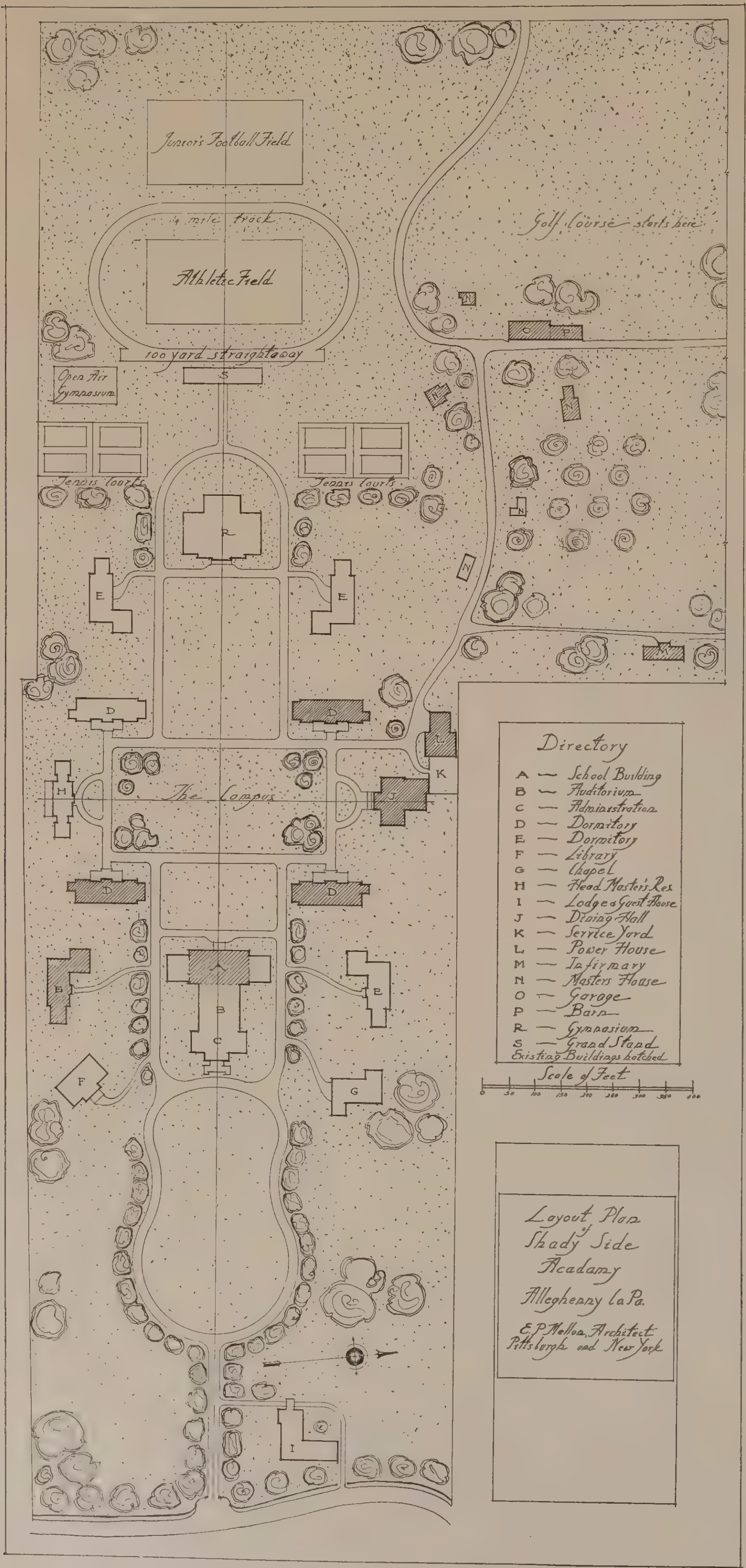
ONE OF THE DORMITORIES, SHADY SIDE ACADEMY, ALLEGHANY CO., PA.

E. P. MELLON, ARCHITECT



MAIN SCHOOL BUILDING, SHADY SIDE ACADEMY, ALLEGHANY CO., PA.

E. P. MELLON, ARCHITECT

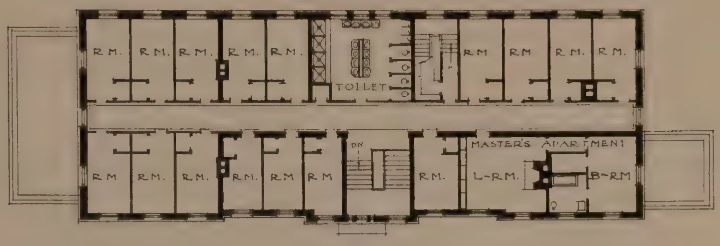


Layout, Shady Side Academy

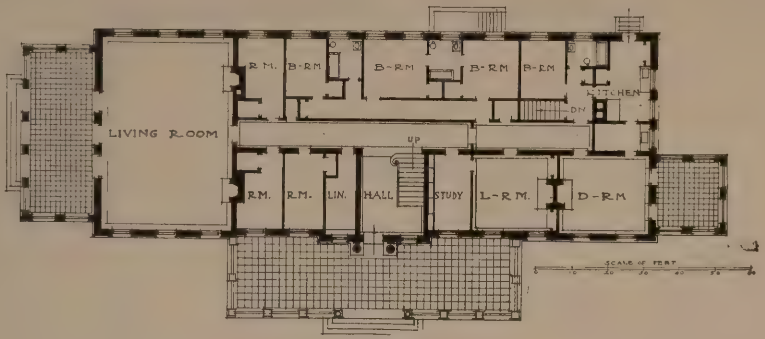
that of the youth whose schooling has been had in a city atmosphere, with its distractions.

There are a few of the older established preparatory schools in America which were wise enough in the beginning to appreciate the advantages offered by the country and which established themselves in the country originally. These schools have grown enormously, and it has been found necessary to rapidly add building after building to accommodate the growing demand for the housing of students. Shady Side Academy is among the widely known and old established preparatory schools in this country. It was founded in 1885, in what was then practically the outskirts of Pittsburgh. As in many other instances, the city gradually grew until the site of Shady Side Academy became a city lot surrounded by paved streets, and classes were continually interrupted with the noise of motors and surface cars. In 1921 it was found that if Shady Side Academy was to hold its own among the prominent preparatory schools of the country, it would be necessary to follow the trend of modern development and move it to the country. After a time an appropriate site was found within five miles of the residential district of Pittsburgh, a site which is perhaps unequaled in America for the establishing and erecting of a country school for boys. The acquiring of the property was made possible through the generosity of Mr. and Mrs. Wallace H. Rowe. The trustees very wisely decided that nothing should be done toward the development of this property until the architect had developed a complete plan for the future working out of the entire scheme. This involved a close study for deciding upon the best site for the campus and for the situations of the different buildings in their relation to their accessibility to the campus and to each other, as well as for the convenient and logical location for athletic fields, etc. It was also necessary to make a complete study for the future development of the landscape architecture of the entire site and for the planning of each building to be built for the establishment of the school and for those which were to follow later. There are only a few instances where an entire school has been developed in this manner, and in conceiving such a development in its entirety for the future there are assured safeguards that errors will not be made in requirements and in future development of the activities of the school, and assurances also of protection (which unfortunately has not been given some schools) against the designing and erection from time to time of buildings of different styles of architecture, having no relation to other established buildings and thereby creating as a whole a collection of disunited and architecturally discordant units on the campus.

One of the requirements insisted upon in this instance by both the architect and the trustees was that all buildings erected should be absolutely fireproof. The initial cost of fireproof structures is greater than that of buildings of inflammable materials, but by having only fireproof structures, not only are the costs of insurance and upkeep kept at a minimum but protection of life is assured, and it has been proved that the confidence reposed by parents in a school which provides only fireproof buildings is enormous. Since the erecting of these particular buildings, the applications for accommodations for students which have been received have increased at such a rate that it keeps the trustees and faculty occupied with the problems of preparing for the erection of new buildings and of providing additional accommodations. This has been so marked that during the first year of its establishment in its

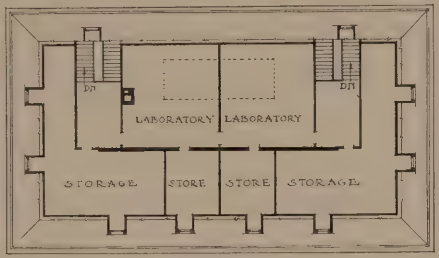


Second Floor

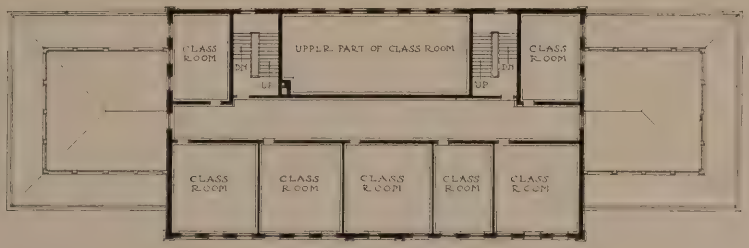


First Floor

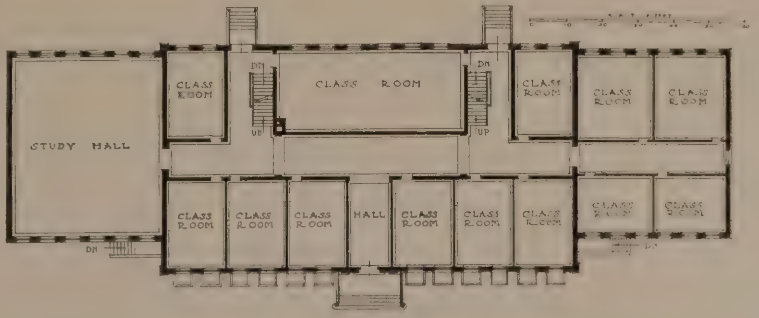
Plans, Dormitory, Shady Side Academy



Third Floor



Second Floor



First Floor

Plans, Main School Building, Shady Side Academy

A General View of the Campus, Shady Side Academy

home in the country Shady Side Academy was more than able to meet its budget for operating expenses.

There have been already erected the general recitation building (minus two very necessary wings, which are expected to be erected within the immediate future) and four complete dormitory structures, one of which is used as a temporary gymnasium.

Besides plans for the contemplated erection of the two wings of the main school building and of additional dormitory buildings, there have been made complete plans for a head master's house, a gymnasium building, an administration building, an auditorium, a chapel and a library building. One of the noteworthy features which has been completed is the Thomas A. Mellon Memorial Gateway, which is placed at the entrance to the main driveway. This gateway is designed in the same general style as that employed in all of the buildings, which is a type of Colonial architecture, typical of that which was used in the early colonial work in the state of Pennsylvania. The whole effect is of simplicity, of dignity and of good taste. Buildings and landscaping together give a feeling of perfect harmony and suggest the traditions of some of the old country schools in England.

Perspective of a Dormitory, Shady Side Academy

Alumni Memorial Building

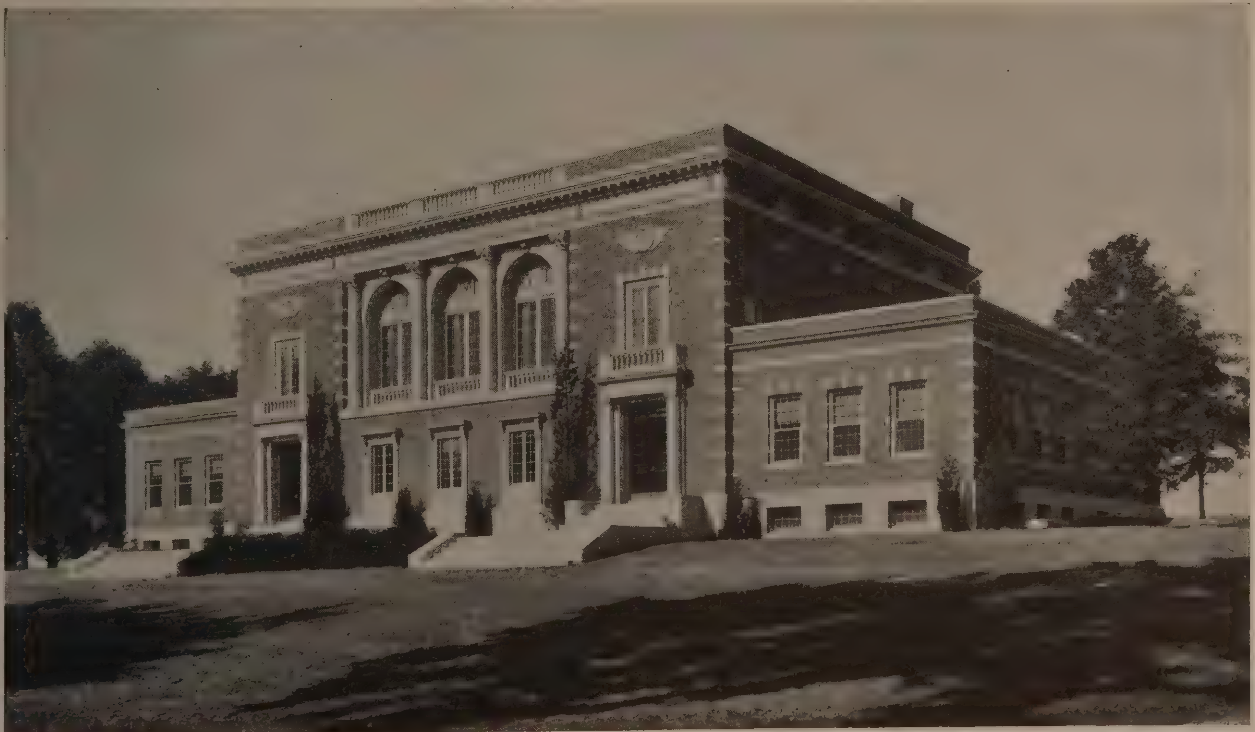
MASSACHUSETTS AGRICULTURAL COLLEGE, AMHERST, MASS.

RITCHIE, PARSONS & TAYLOR, Architects

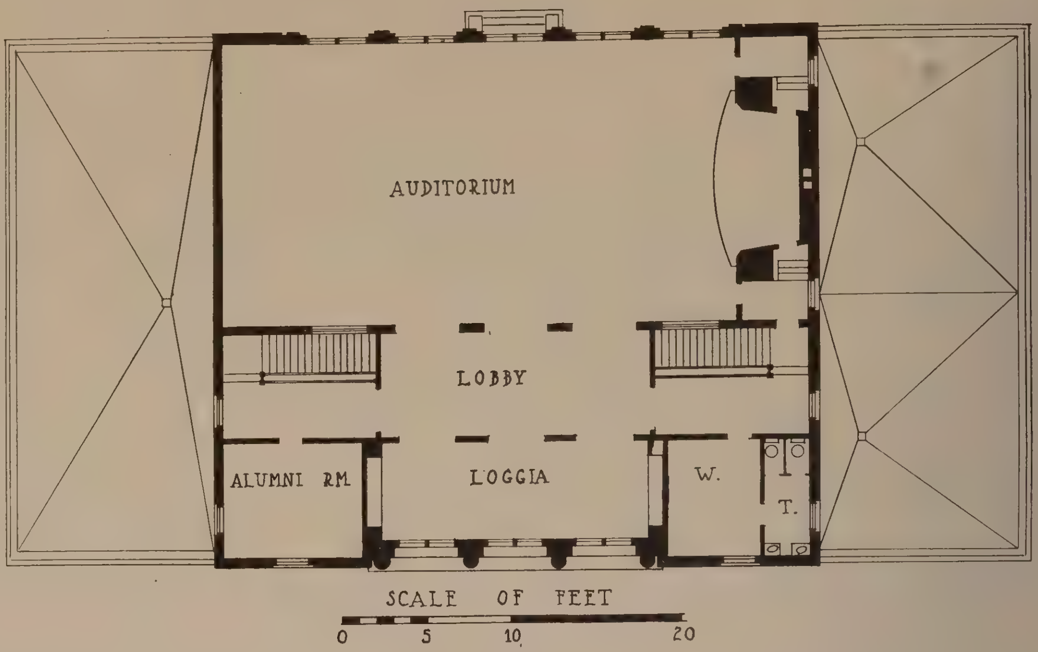
THE Commonwealth of Massachusetts deeded to the Massachusetts Agricultural College Alumni Association the ground for the erection of a memorial building to be dedicated to those members of the college who made the supreme sacrifice during the World War. The Alumni Association raised $100,000 to meet the cost of the construction of the building, and later the Association raised $27,000 additional which was used to purchase furnishings and equipment. After the memorial was completed and equipped dedication exercises were held, and the Alumni Association then deeded back to the Commonwealth of Massachusetts the ground and building, and the state maintains the entire property, together with all the other buildings of the Massachusetts Agricultural College, at Amherst.

The memorial is built on an acre of land located south of the Stone Chapel and facing on Lincoln Avenue and Olmsted Road. This is an excellent site, sloping down to the pond and contiguous to the Alumni Athletic Field, future dormitories and gymnasium. The principal front and main entrance to the memorial are on the Olmsted Road side of the building. In addition to these there are entrances on the Lincoln Avenue side and at the south end of the structure. The building is designed in the Classic style, with rough textured end cut brick and marble trimmings. This treatment brings the structure into harmony with the other buildings on the campus, at the same time aiding in securing a monumental design which differentiates it from the buildings which are used for instruction. The dominating motif of the easterly facade is the loggia in the second story. This loggia is enclosed with large French windows, and it is often used as a retiring room in connection with the auditorium. This loggia treatment is recalled on the Lincoln Avenue side by the arched windows in the auditorium. The billiard and recreation rooms are placed on the Lincoln Avenue side of the first floor, and they are entered also from the corridor.

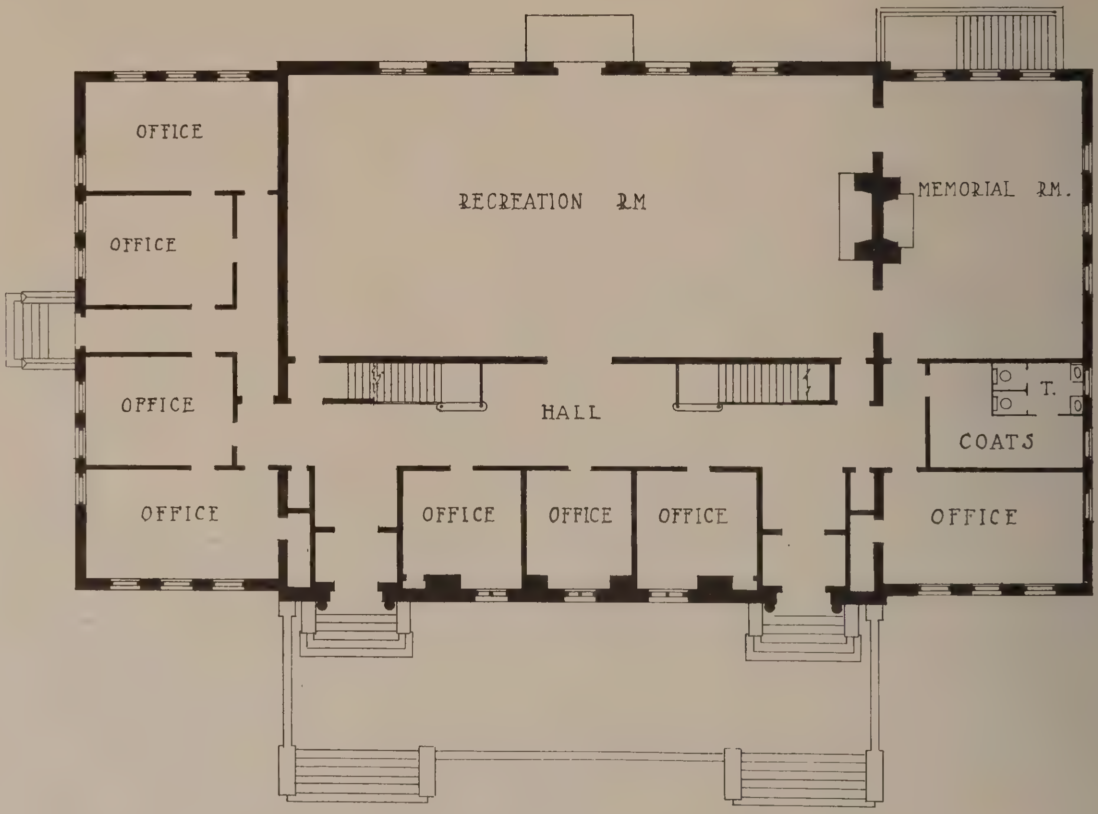
The memorial hall is in the northwest corner of the building, opening into the recreation room as well as from the corridor. In this room is a special memorial fireplace commemorating the service of the men of the college in the World War. The offices on this floor are for the use of various student organizations. In the basement provision is made for bowling alleys, toilet room, barber shop, and a store. In the latter space is allotted to a post office for students' mail. There is a separate entrance from the outside in addition to that from the first floor. The greater portion of the second floor is given over to the auditorium, which has a seating capacity of about 400. This auditorium is reached by two stairways of generous width and easy rise. Near the middle the corridor is enlarged, giving an area which becomes a part of the large room when it is used for social gatherings. This space also affords connection with the loggia. On this floor is a retiring room for women and a room set aside for use of the alumni.



Alumni Memorial Building, Massachusetts Agricultural College



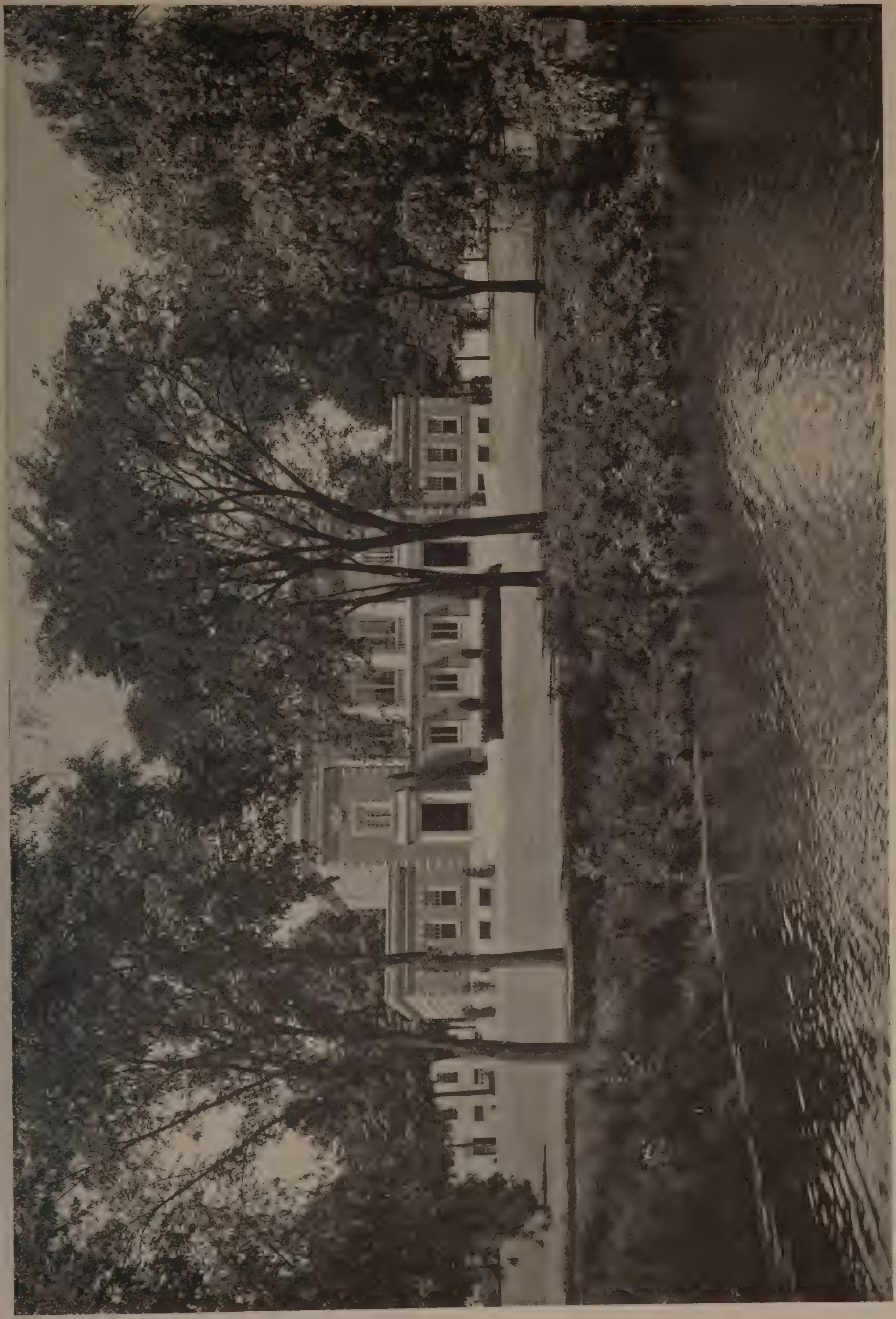
SECOND FLOOR



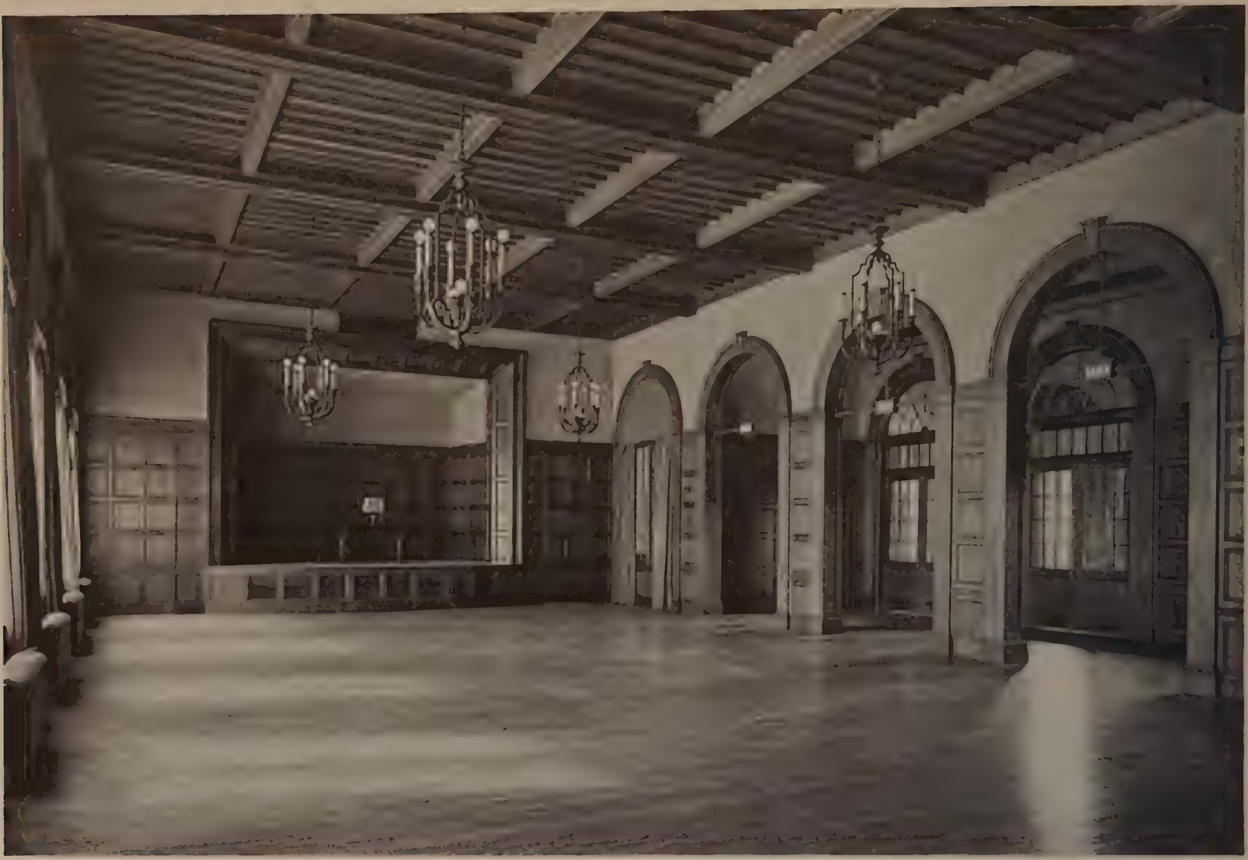
MAIN FLOOR

PLANS, ALUMNI MEMORIAL BUILDING, MASSACHUSETTS AGRICULTURAL COLLEGE
AMHERST, MASS.

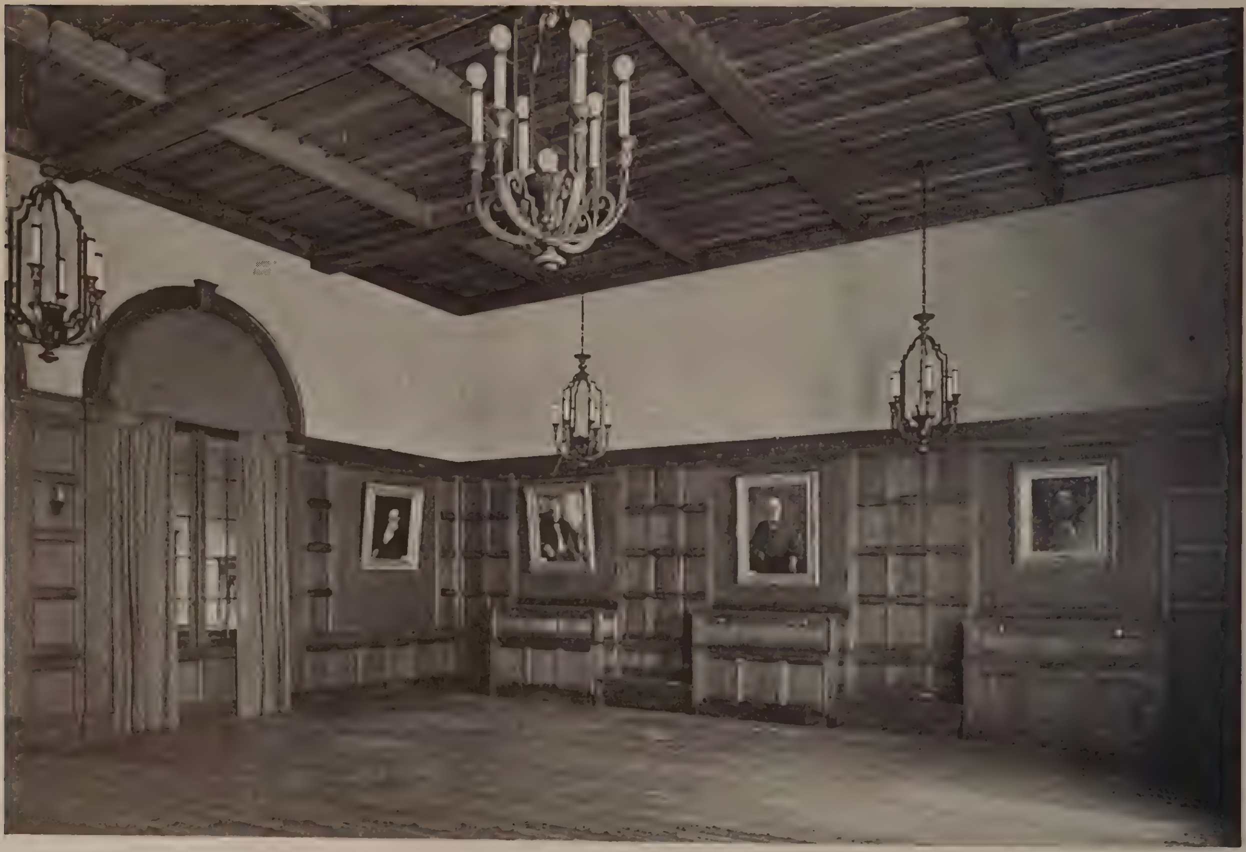
RITCHIE, PARSONS & TAYLOR, ARCHITECTS



GENERAL VIEW, ALUMNI MEMORIAL BUILDING
MASSACHUSETTS AGRICULTURAL COLLEGE, AMHERST, MASS.



VIEW TOWARD THE STAGE



DETAILS, THE AUDITORIUM, ALUMNI MEMORIAL BUILDING
MASSACHUSETTS AGRICULTURAL COLLEGE, AMHERST, MASS.
RITCHIE, PARSONS & TAYLOR, ARCHITECTS

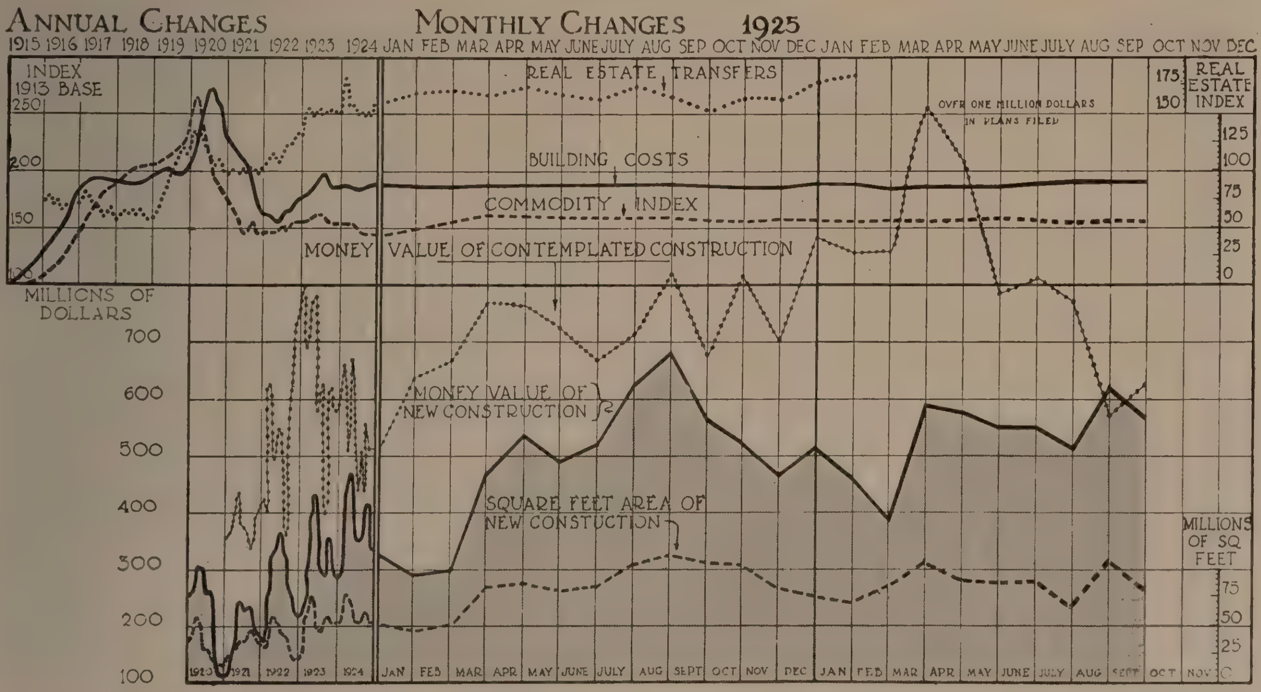
THE BUILDING SITUATION

A MONTHLY REVIEW OF COSTS AND CONDITIONS

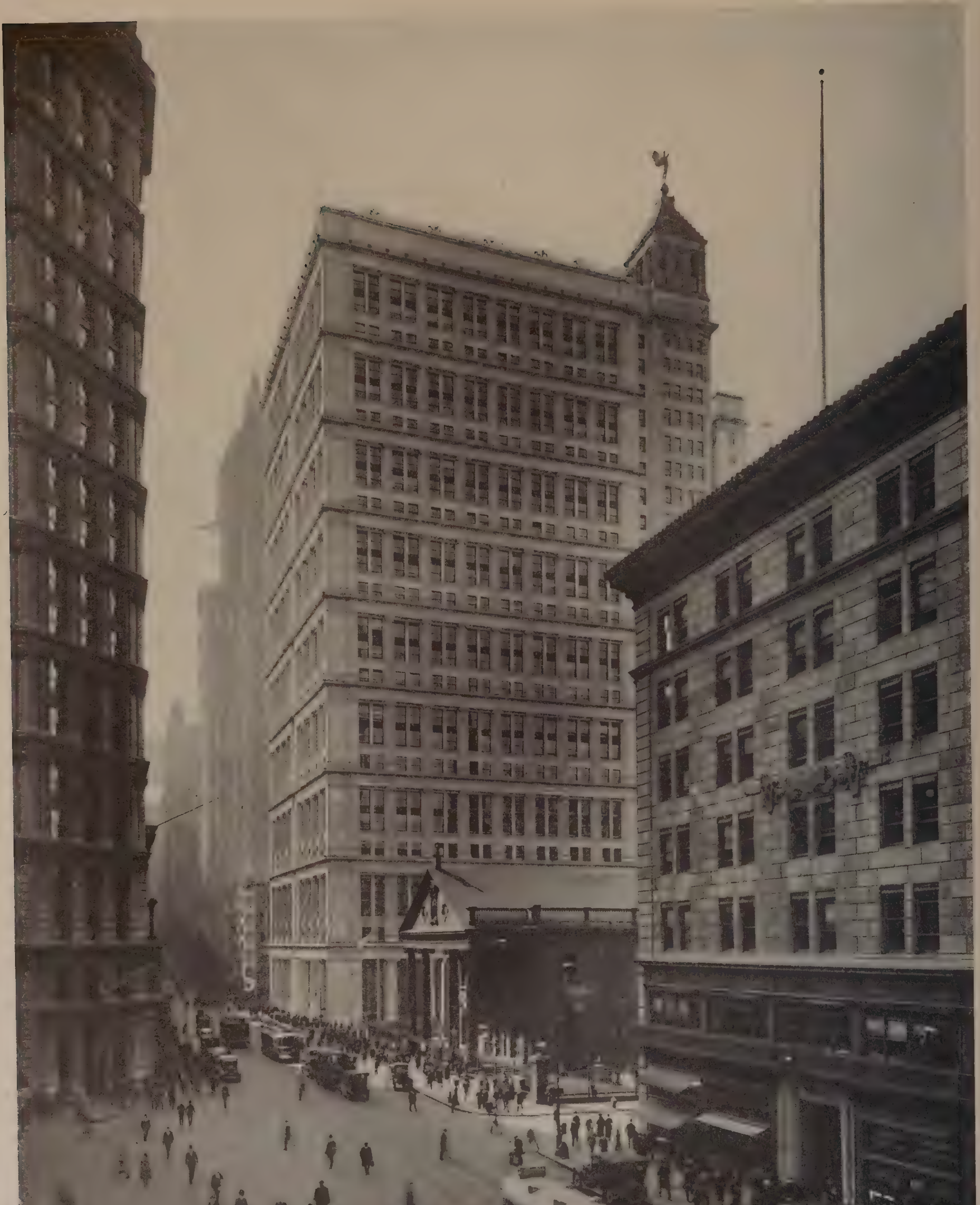
THE fall building season has begun in a logical manner, showing somewhat less activity than during the same period last year, but nevertheless maintaining a volume of contemplated and actual new construction work which promises to finish up the year 1926 with a higher record than any previous year. The figures published by the F. W. Dodge Corporation for 37 states east of the Rocky Mountains indicate a total value of new construction contracts amounting to $562,371,400 for the month of September. This amount represents a decrease from last September of less than 1 per cent. Contemplated new work, as represented by plans filed, was not as great in volume this September as in the same month of 1925. The total of these projects was approximately 9 per cent less, indicating an easing off of demand for new buildings, and strengthening the grounds for forecasting the close approach of that period in the building construction field when we shall gradually return to a normal of probably four billion dollars a year.

Conditions warrant the statement that this return will be very gradual, as it should be if the correct economic balance is to be maintained in the construction industry and in the general commercial situation of the United States. It is believed that this line of gradual return will drop lower during a period of five years, with some flurries back to abnormal activity, but probably without record-breaking periods of immense proportions such as we have seen during the past four years. More and more it becomes evident that we have entered the period when new construction activity is not based on the need for additional building space but is an indication of the improved standards of living and of housing, coupled with the ability of individuals and corporations to pay for better buildings, either through relatively high rentals or by the investment of surplus funds to secure the size and type of structural space desired.

It is obvious that sooner or later new building in every class will be subject to the first stages of rental competition, when it will no longer be a question of space at any price; then will be the time that good architecture and good planning will come into their own as recognized factors in the commercial success of buildings of all the types now being constructed.



THESE various important factors of change in the building situation are recorded in the chart given here: (1) *Building Costs.* This includes the cost of labor and materials; the index point is a composite of all available reports in basic materials and labor costs under national averages. (2) *Commodity Index.* Index figure determined by the United States Department of Labor. (3) *Money Value of Contemplated Construction.* Value of building for which plans have been filed based on reports of the United States Chamber of Commerce, F. W. Dodge Corp., and *Engineering News-Record.* (4) *Money Value of New Construction.* Total valuation of all contracts actually let. The dollar scale is at the left of the chart in millions. (5) *Square Foot Area of New Construction.* The measured volume of new buildings. The square foot measure is at the right of the chart. The variation of distances between the value and volume lines represents a square foot cost which is determined, first by the trend of building costs, and second, by the quality of construction.



AMERICAN TELEPHONE & TELEGRAPH BUILDING, NEW YORK

WELLES BOSWORTH, ARCHITECT

ENGINEERING DEPARTMENT

Shifting of Structural Columns

By ARTHUR T. NORTH

PLANNING additions to structures already existing often presents problems of interest and importance to architects and engineers. Particularly is this the case when the building in question is a large structure and when the additions involve the remodeling of a great hall or lobby in which, unless architectural symmetry is to be completely sacrificed, considerable change in the placing of supporting walls or bearing columns must be made.

The owners of the American Telephone & Telegraph Building, located at Broadway and Dey Street, New York, were justly proud of their ground floor lobby, which occupied the entire frontage of the building, with a depth of about 70 feet and containing nine free-standing columns. When the adjoining property was acquired on which to extend the building to Fulton Street, it was decided to extend the lobby also. Had the existing columns in the old north wall been utilized as lobby columns after the wall was removed, the spacing would have been unsymmetrical and architecturally impossible. It was decided to space the columns correctly, and in order to do so the center line of the old north wall columns was moved about 8 feet, 6 inches in a northerly direction, a most difficult undertaking. These columns supported 24 stories above the lobby ceiling, with a maximum load of about 3,000,000 pounds. The problem was to pick up these columns at the lobby ceiling level and to transfer their tremendous loads to the new columns whose center line was more than 3 feet distant; this task was accomplished.

The ground floor lobby of this building is a room of magnificent proportions, about 66 by 133 feet in size, with a height of 35 feet. The 25 free-standing marble columns are 5 feet in diameter and spaced about 17 feet on centers. The vista in this great Doric hall in whatever direction is impressive, and the most inspiring emotions are aroused. The cool, low tones of the marbles, the skilled craftsmanship displayed in the forming of the great columns, and the utmost simplicity in form and proportions create rare beauty and dignity,—all helping to make a room of real grandeur. Thus some of the most valuable floor area in America is given over to art and beauty.

How to pick up the three north wall columns and transfer the loads to new columns was a problem that engaged the most earnest attention of the architect, engineers, steel contractors and builders. Many schemes were proposed and abandoned, until it was decided to support the loads on cantilever trusses, balanced by loads developed in the new structure. This meant the picking up of columns supporting 24

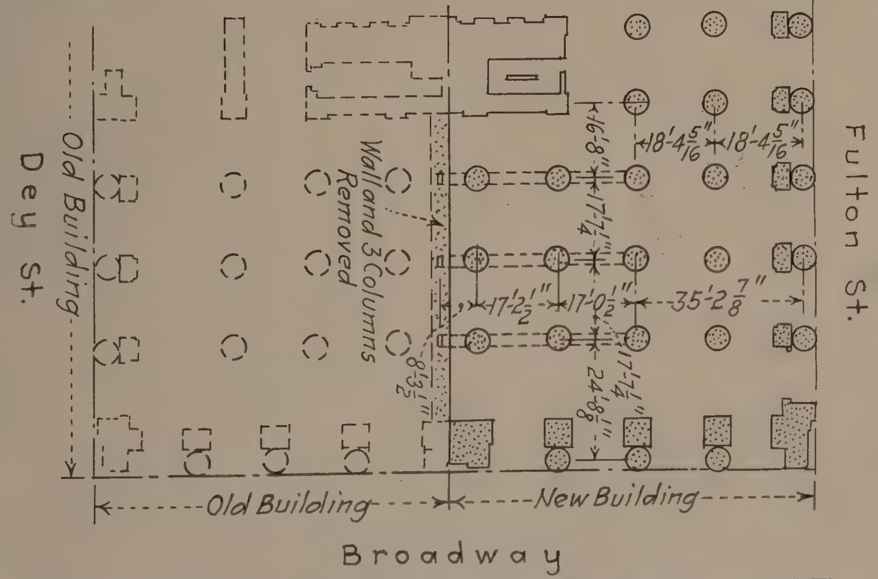
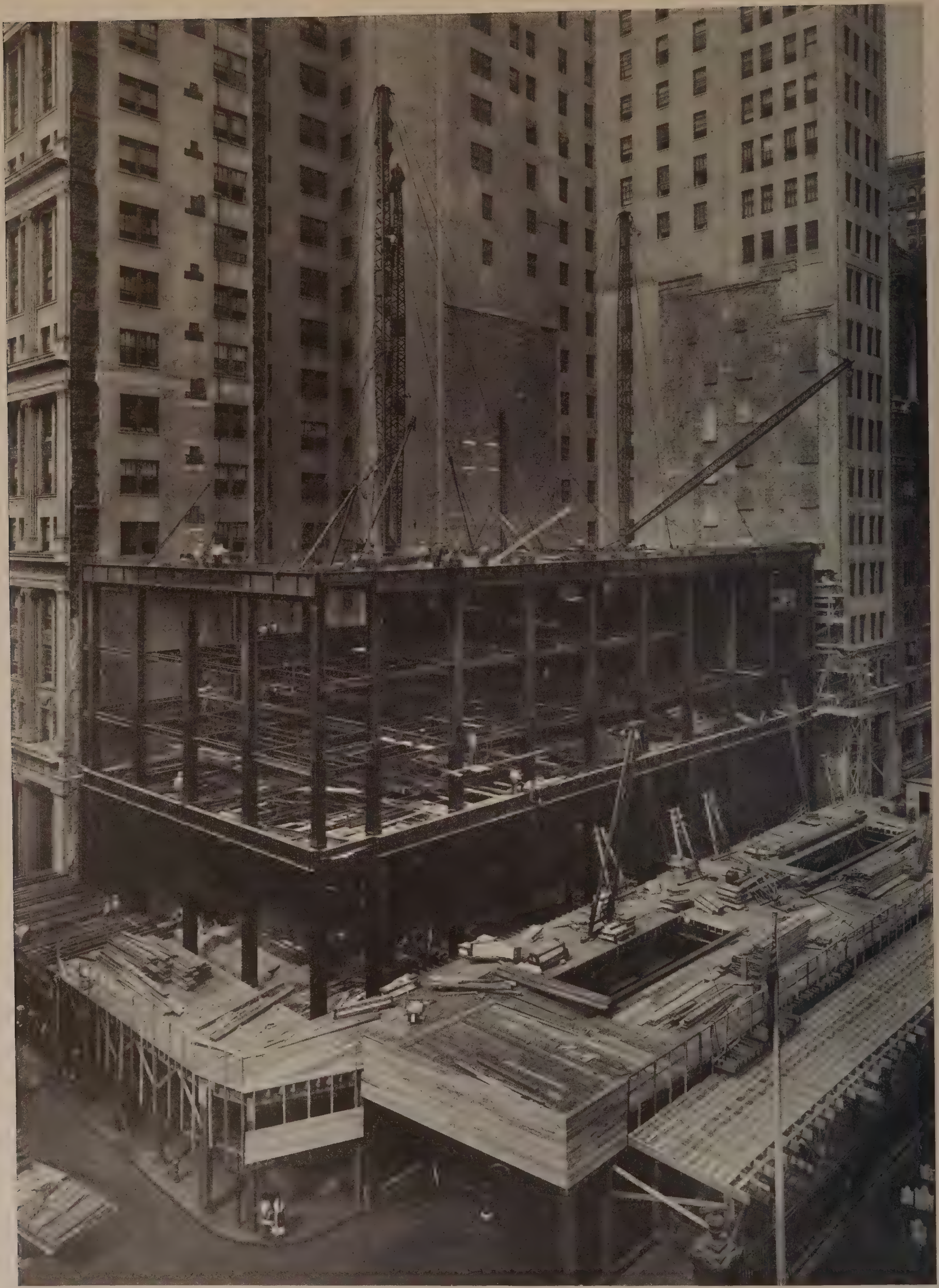
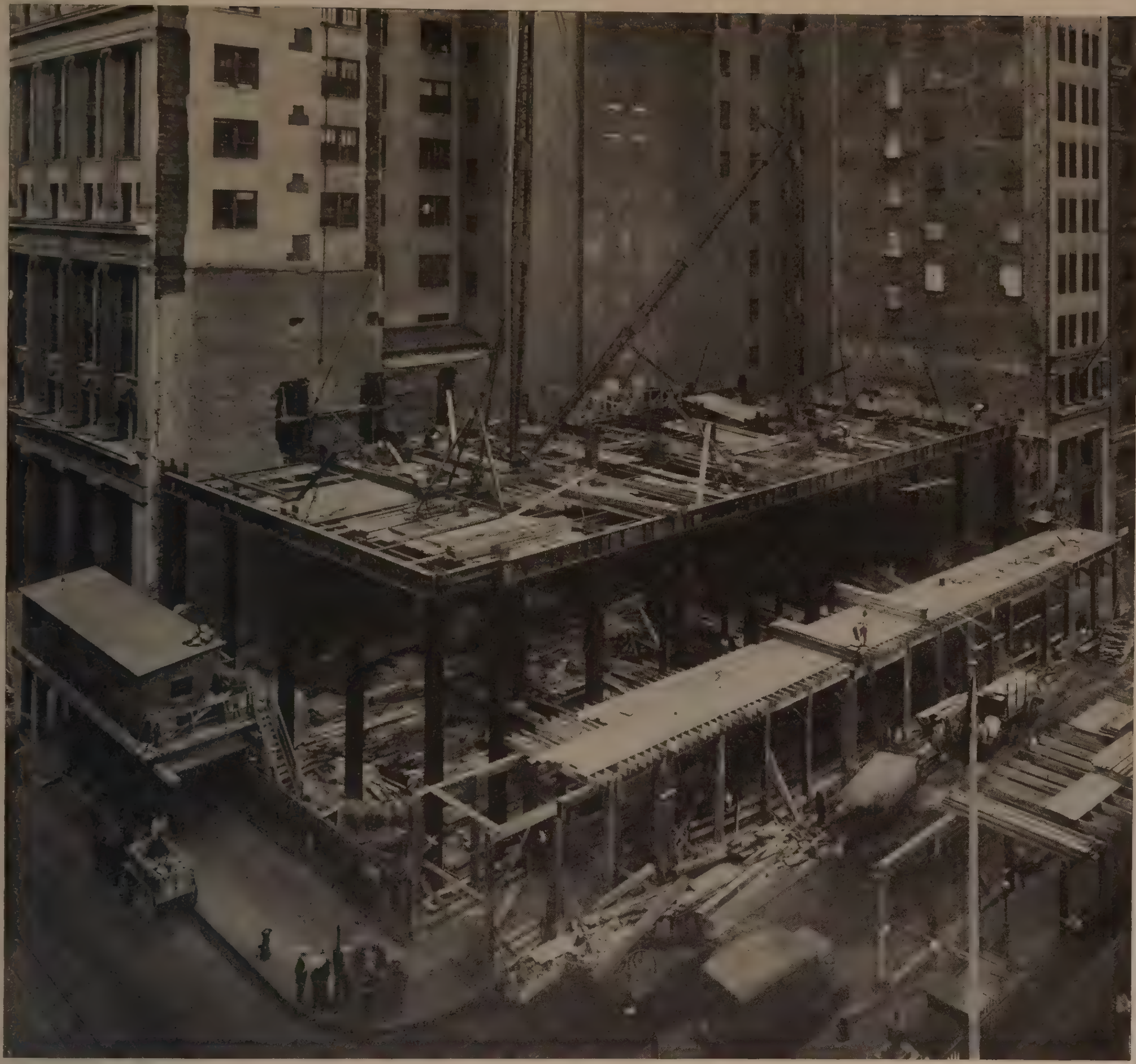


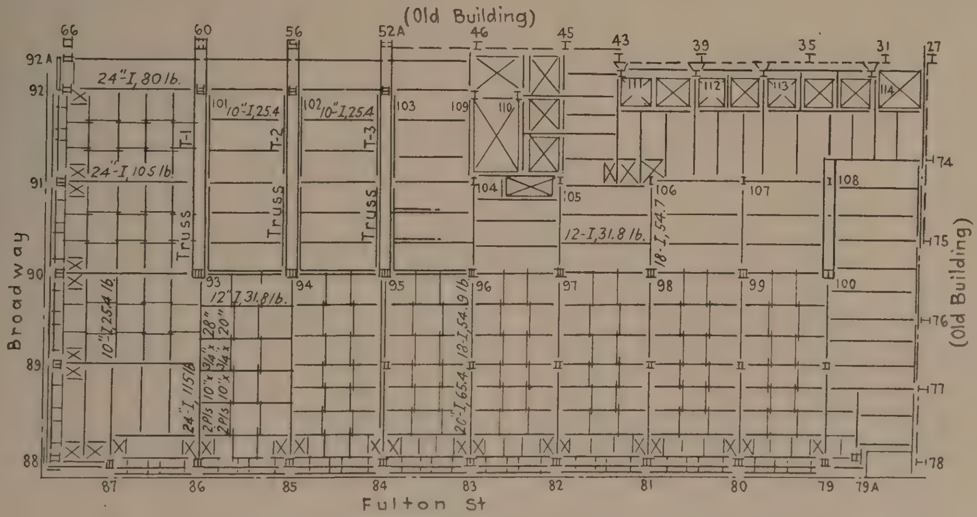
Diagram of Old and New Buildings at Third Floor Showing Location of Three Cantilever Trusses Used to Support Load Originally Carried by Columns of the Old Building



View During Construction, While Cantilever Trusses Were Being Inserted to Support 24-Story Load Originally Carried by Columns in Old Building



View Showing Holes in Old Wall Where Cantilever Trusses Were Inserted



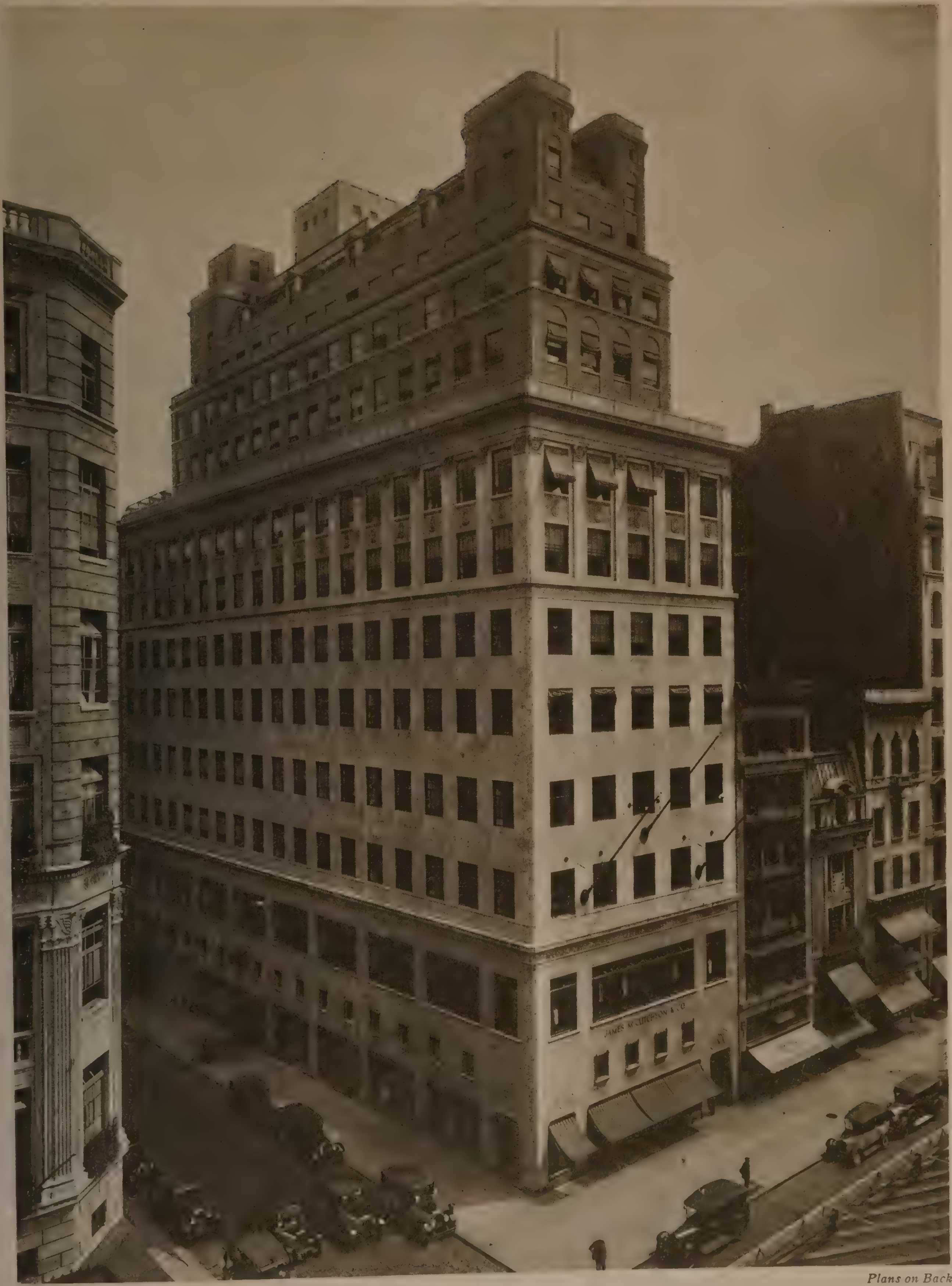
Framing Plan of New Building, Showing Location of Three Cantilever Trusses stories of an occupied building, transferring the loads to new columns, removing an existing wall, and not interfering with the occupancy of the structure,—surely a task that would challenge the talents of an engineer of the highest order. The structural supports were carried out in three trusses in the third story of the new building, having cantilever arms 8 feet, 6 inches long. The trusses extended back two bays, making the back arm 34 feet long. The lobby columns under the center of the trusses carry no load and are merely so placed to complete the symmetry of the plan. The column on top of the truss is located back of the fulcrum point a distance equal to the projection of the cantilever arm with an arm ratio of 1:1, and the anchor column at the end of the back arm has an arm ratio of 1:4 with the cantilever arm. The loads assumed were those accruing in the column schedule loads at the third floor, made up of the full dead load and a live load of 15 pounds per square foot on the supported floor area as a minimum. The loads varied in the three columns to be supported, the greatest being approximately 3,000,000 pounds. It is obvious that the transferring of such vast loads must be accomplished gradually by permitting the loads in the old columns to be supported on their original foundations, decreasing as the balancing loads were developed as the new structure progressed. When the effect of the weight of the new work supported on the back arm of the trusses was equal to or greater than the effect of the weight on the cantilever end of the trusses, with reference to the lever arms and the fulcrum, then the transfer was fully accomplished.

The old columns were first exposed in the third story of the north wall. The rivets that projected beyond the east and west faces of the columns were removed one at a time and replaced with countersunk flush-head rivets. Two 1¼-inch gusset plates were used at each column for the truss connection. These plates were shop-punched for the column connections only. After being placed in position the corresponding rivet holes in the columns were drilled and reamed and the riveting completed. The trusses were then assembled, supported by the fulcrum and the anchor columns. The connection rivet holes in the 1¼-inch gusset plates and in the connecting upper chord and web members were drilled and reamed in the field. It was apparent that the fulcrum point must be maintained at a constant elevation at all times. The increasing loads on the fulcrum columns would cause them to compress and shorten, and the decreasing loads on the lower portions of the old columns would cause them to lengthen. The constant elevation of the fulcrum point was maintained by using four hydraulic jacks placed at the bases of the columns between the grillage beams and wing brackets attached to the columns. The heavy permanent column bases were beveled, and two steel wedges were inserted in the joints and pushed into position by horizontal screw jacks as the columns were raised by the hydraulic jacks. The pitch of the wedges was 1:16, and their insertion movement was the basis of an accurate measurement of the lifting done. The pressure gauge readings of the hydraulic jacks gave a measurement of the total load on the columns. An open joint of about 1½ inches was left in the anchor arm columns just below the third floor level. Connection plates were riveted to the lower portions only. During the erection of the trusses this open joint was filled with wedges. When the trusses were completely erected and riveted these wedges were withdrawn, leaving the back arms free. This would permit the load on the old columns, below the cantilever arm connection, to be relieved as the balancing of the loads progressed.

When the trusses were completed, the first floor splices in the old columns were cut free, which permitted the lifting of the columns without lifting the loads in the basements. Extensometer readings were made in these columns and in the various truss members to observe the deformations caused by the application of the loads. The open joints in the anchor columns were closed with permanent fillers and the connecting plates riveted to the upper section as soon as the load was out of the first story sections of the old columns. The first story sections of the old columns were not burned off and removed until an ample margin of balance was provided by a sufficient amount of new construction. When all was made secure and all deformation had ceased, the wedges under the fulcrum columns were fixed permanently in place and the jacks were removed.

As one passed outside of the barricade erected about the part of the lobby being altered, one knew only that another great structure was in process of building; one could have had no conception of the highly intricate operation that was in progress out of sight. No spectacular setting was provided to amuse and thrill an applauding audience. The importance of the undertaking with its great risks was known only to the few directly employed. They alone carried the burden of the risk; they alone maintained constant watch at all points of danger and read the indications of the transfer and balancing of the millions of pounds of load. Unapparent to ordinary vision, they could see the stresses travel from point to point through mute pieces of steel,—mute, yet speaking in the universal language of engineers.

And as the loads were transferred from the old columns and the fine and complete success of the operation was assured, equally great loads of responsibility were removed from the shoulders of those men whose unceasing labors were thus rewarded. It was all in the day's work to them, after all;—unknown, unappreciated and unapplauded! But to those who have literally lived these hidden romances of building in whatever field, there comes a thrill of emotion, of relief and pride to have been one of the great guild of engineers,—unsung but nevertheless honored. It is then that one touches with reverent hands these vast bulky masses of steel that alone make great things structurally possible.

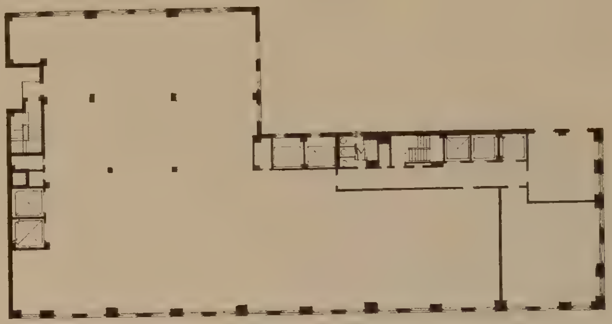


Photos. Wurts Bros.

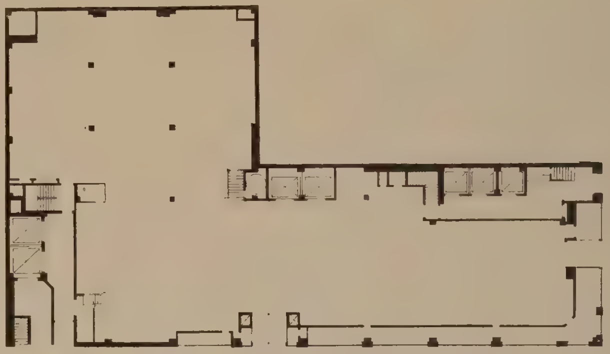
Plans on Back

JAMES McCUTCHEON & CO. BUILDING, NEW YORK

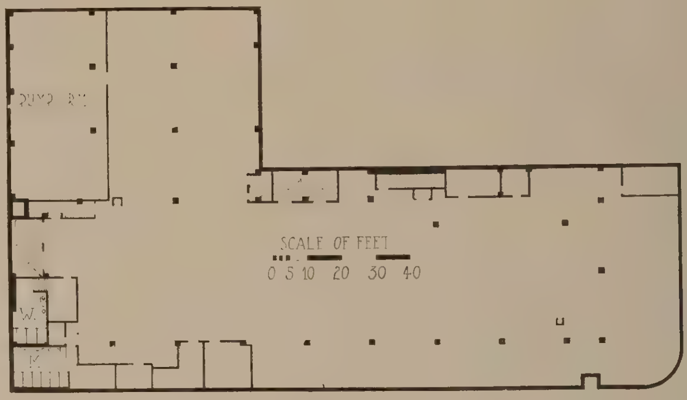
CROSS & CROSS, ARCHITECTS; STARRETT & VAN VLECK, ASSOCIATED



A TYPICAL FLOOR



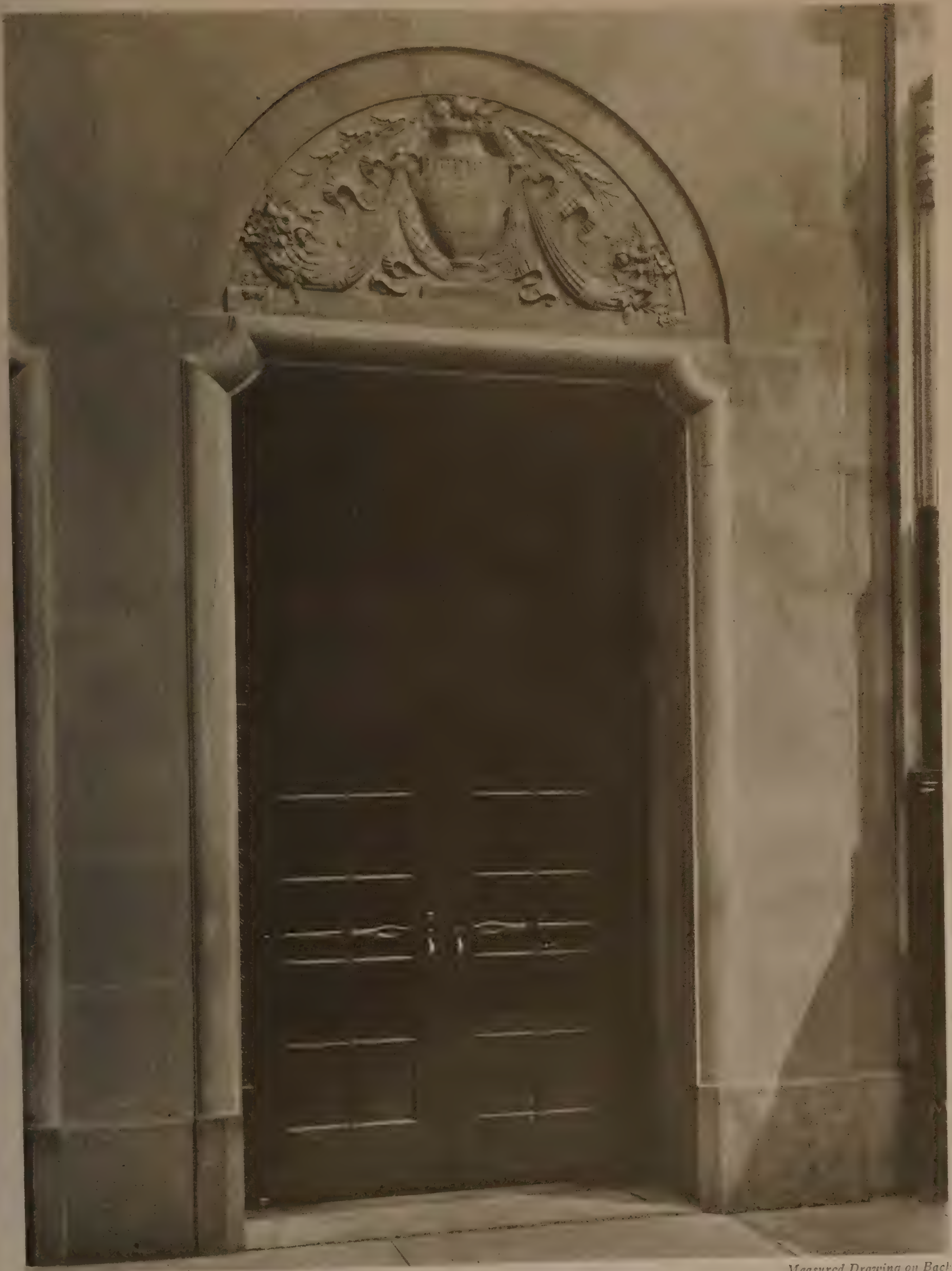
MAIN FLOOR



BASEMENT

PLANS, JAMES McCUTCHEON & CO. BUILDING, NEW YORK

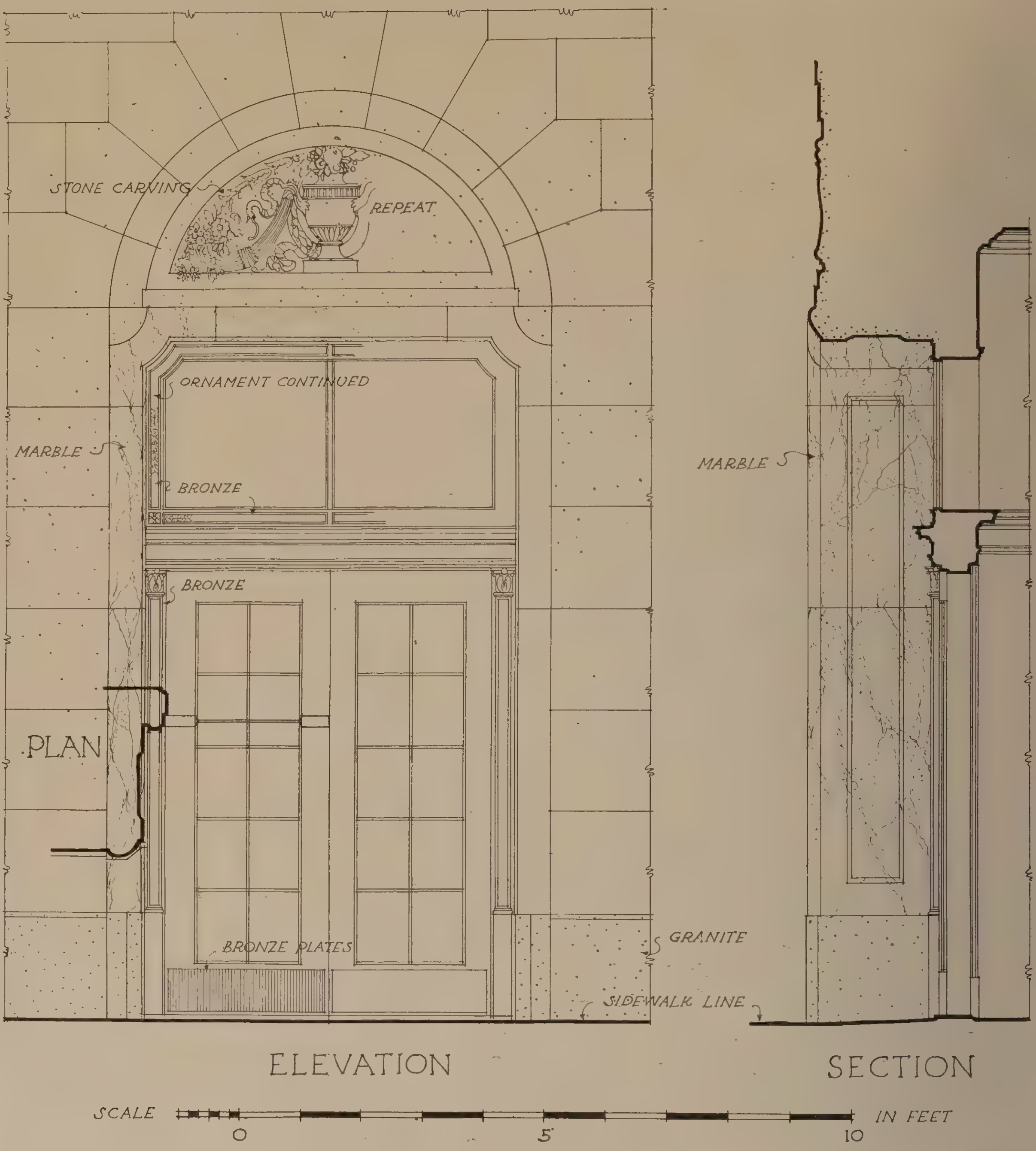
CROSS & CROSS, ARCHITECTS; STARRETT & VAN VLECK, ASSOCIATED



Measured Drawing on Bac

ENTRANCE, JAMES McCUTCHEON & CO. BUILDING, NEW YORK

CROSS & CROSS, ARCHITECTS; STARRETT & VAN VLECK, ASSOCIATED



DETAIL OF ENTRANCE

CROSS AND CROSS, ARCHITECTS
STARRETT & VAN VLECK, ASSOCIATES
NEW YORK CITY

NOV.
1926

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The ARCHITECTURAL FORUM DETAILS

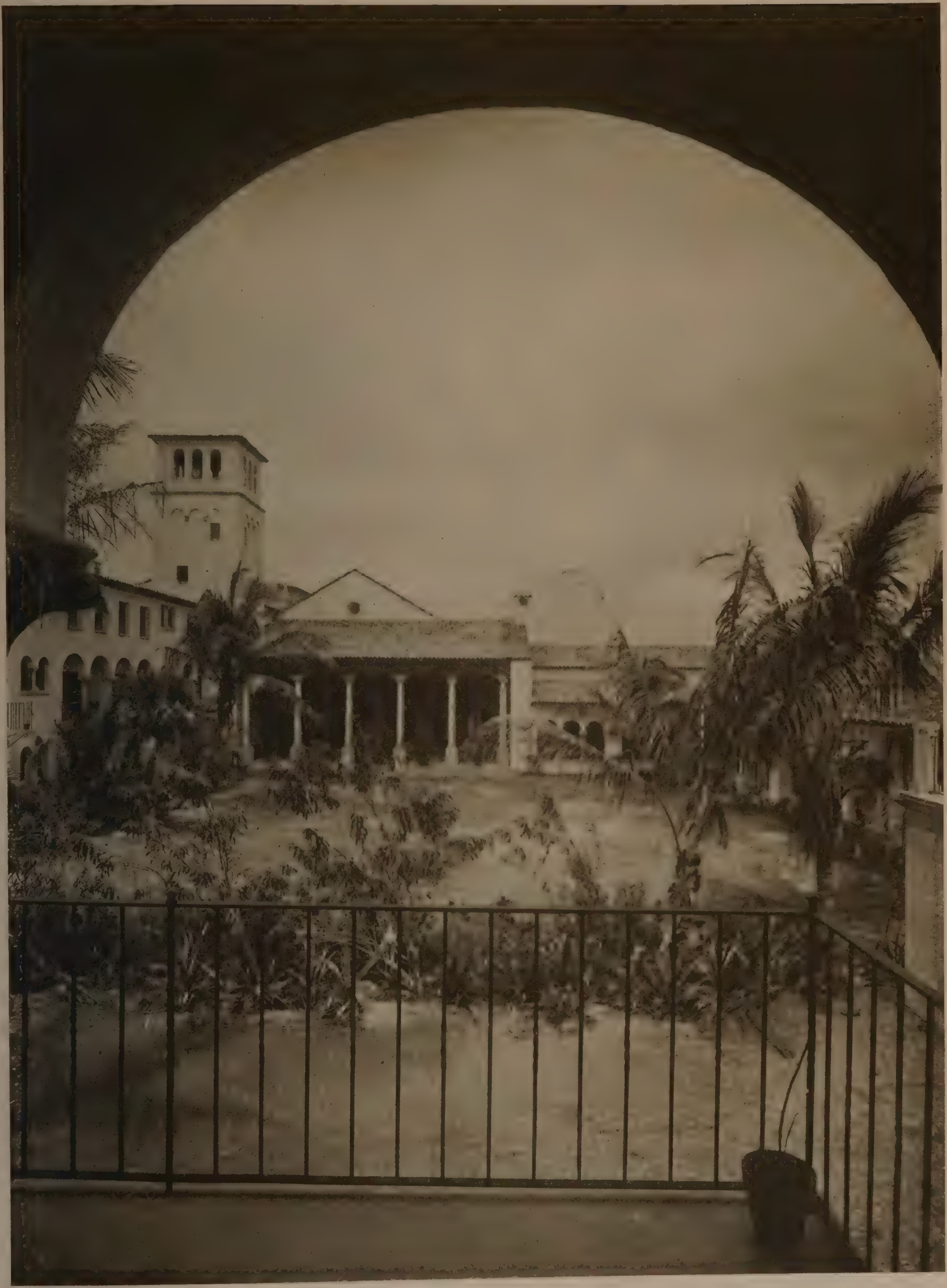


Photo. F. E. Geisler

COURT OF PALMS, RITZ-CARLTON CLOISTER, BOCA RATON, FLA.
ADDISON MIZNER, ARCHITECT

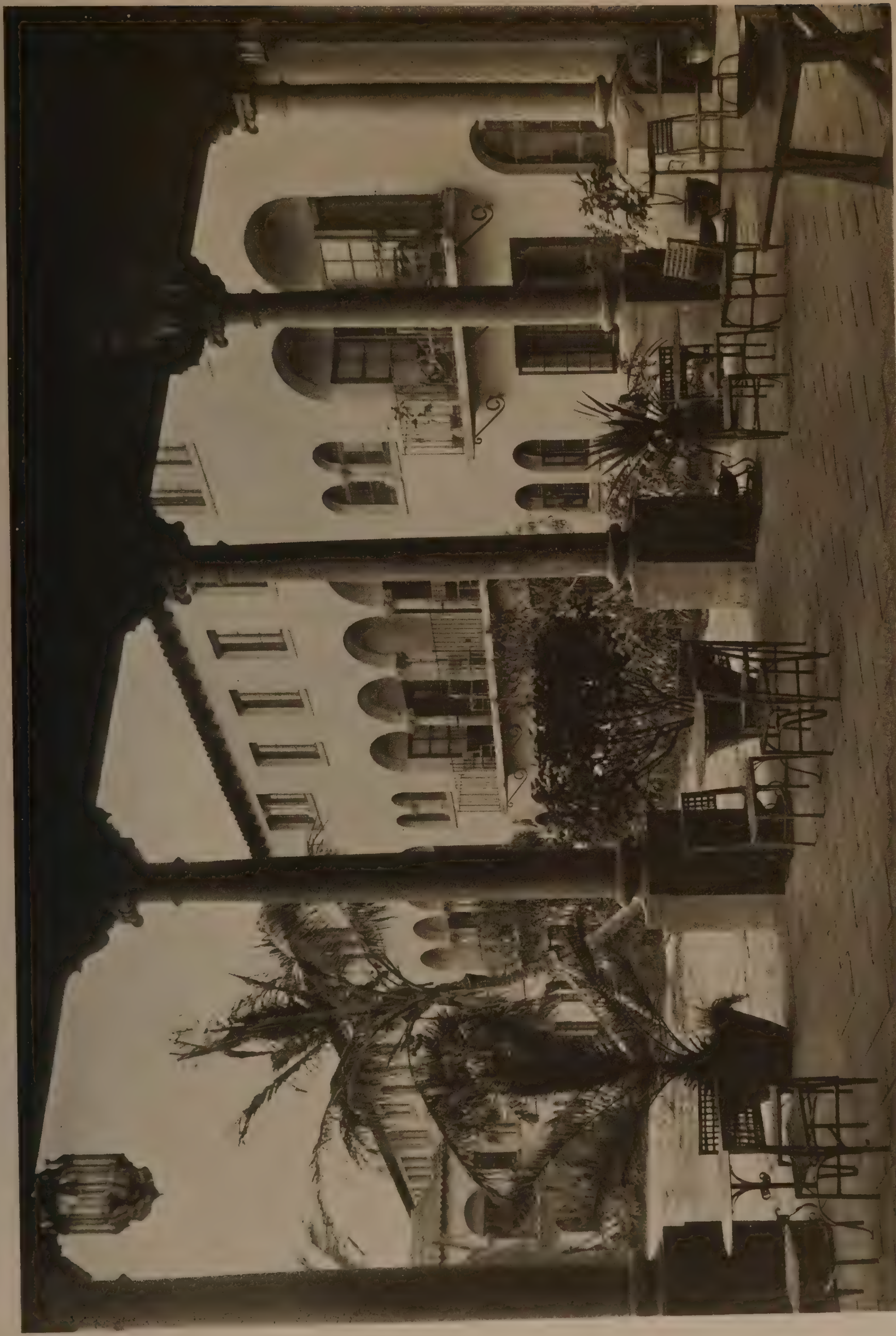
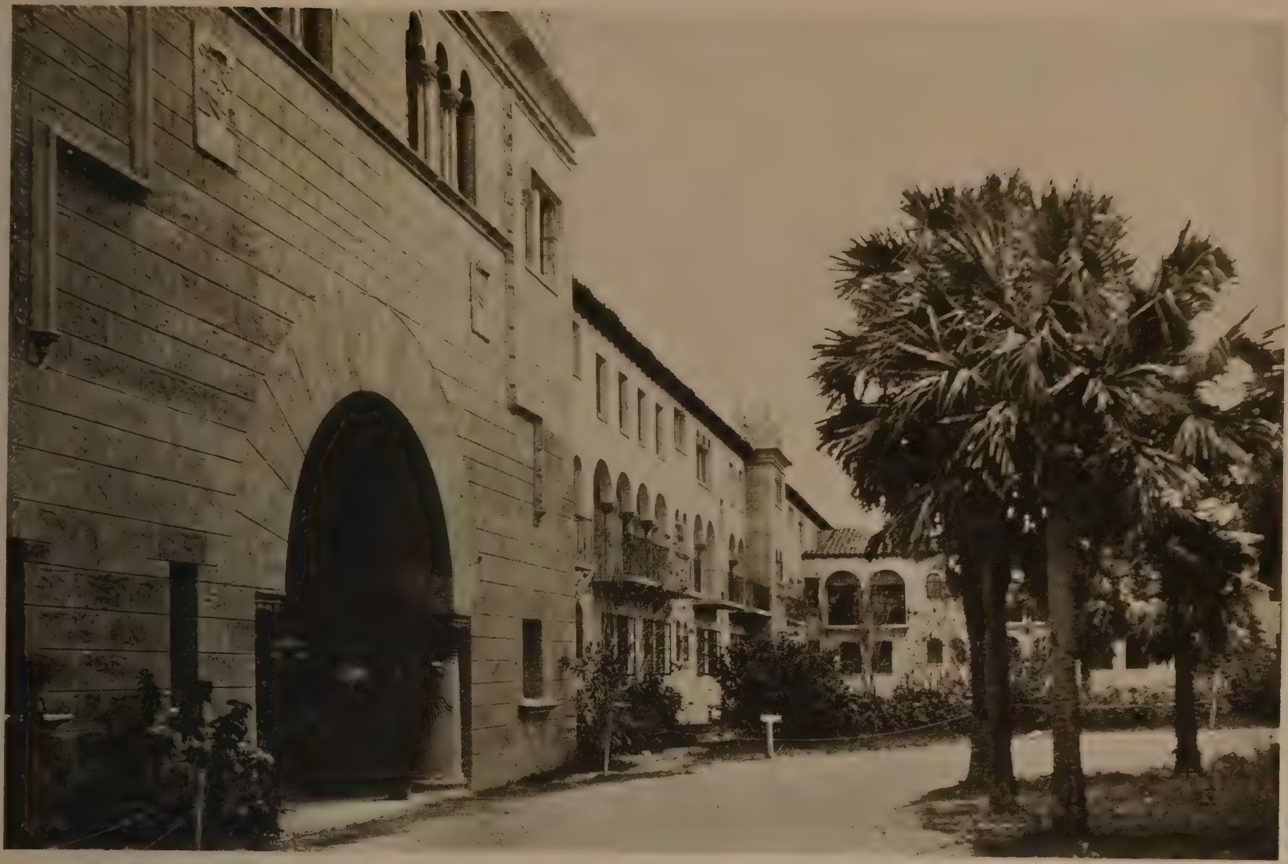


Photo. Ray B. Dame

LOGGIA AND COURT OF PALMS, RITZ-CARLTON CLOISTER, BOCA RATON, FLA.
ADDISON MIZNER, ARCHITECT



WEST FACADE

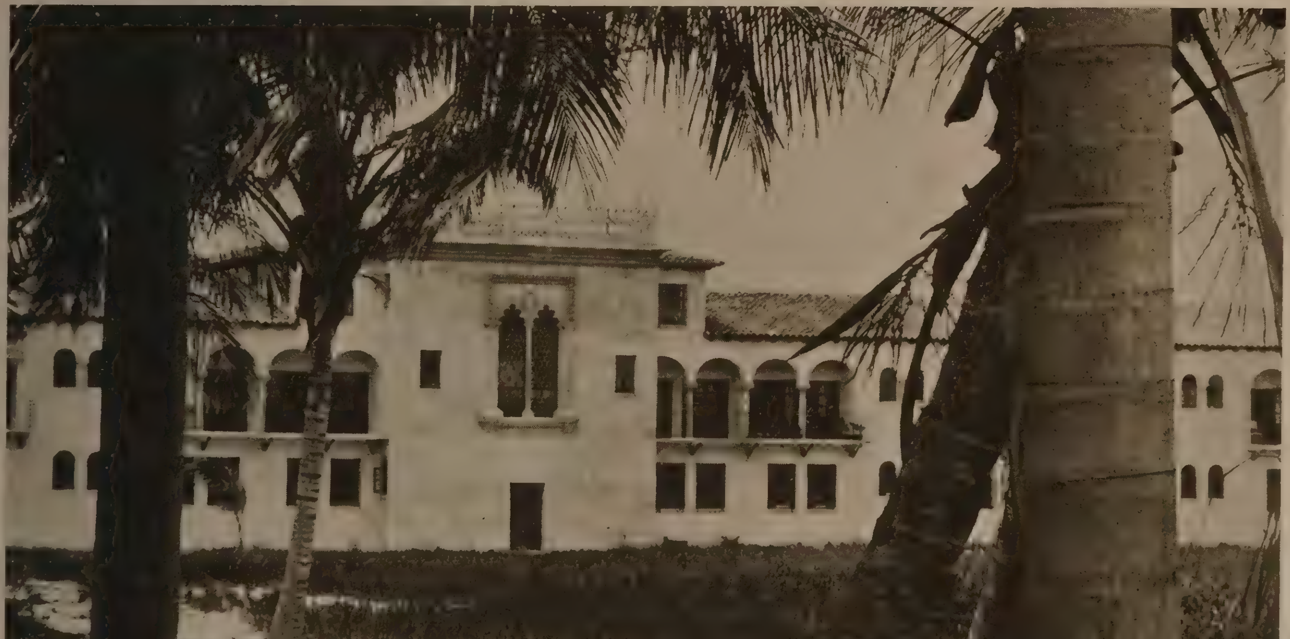


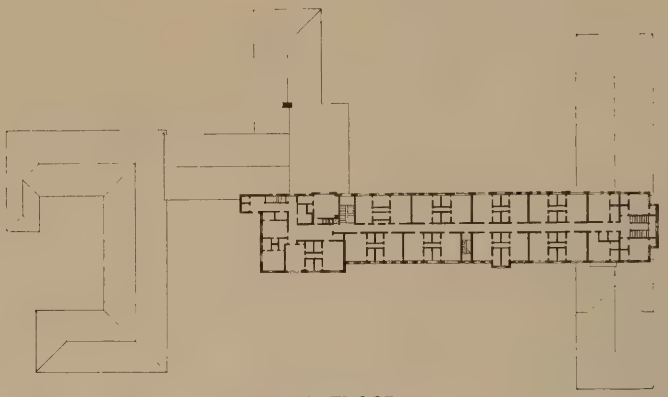
Photo. Ray B. Dame

Plans on Back

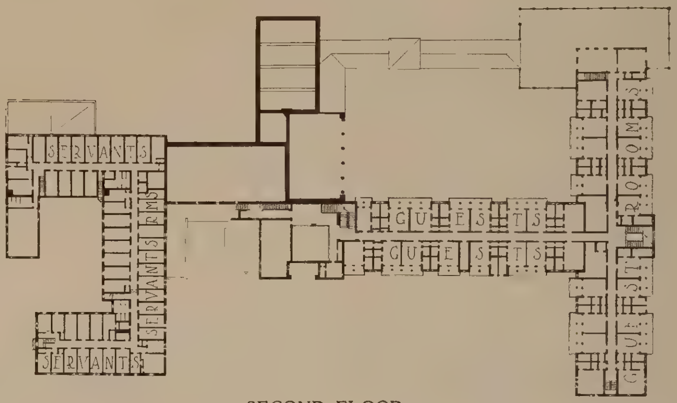
A VIEW OF THE SOUTH SIDE

RITZ-CARLTON CLOISTER, BOCA RATON, FLA.

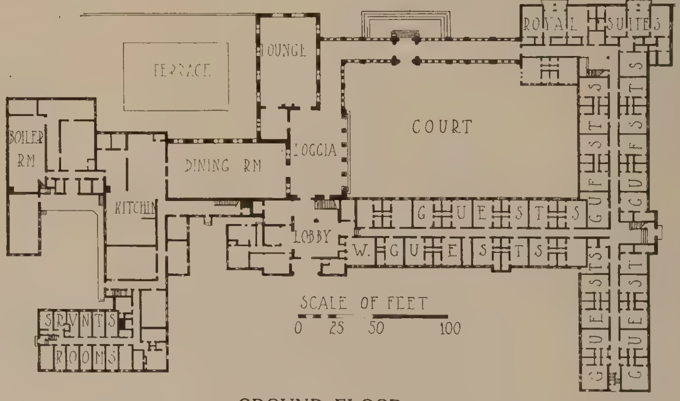
ADDISON MIZNER, ARCHITECT



THIRD FLOOR



SECOND FLOOR



GROUND FLOOR

PLANS, RITZ-CARLTON CLOISTER, BOCA RATON, FLA.

ADDISON MIZNER, ARCHITECT

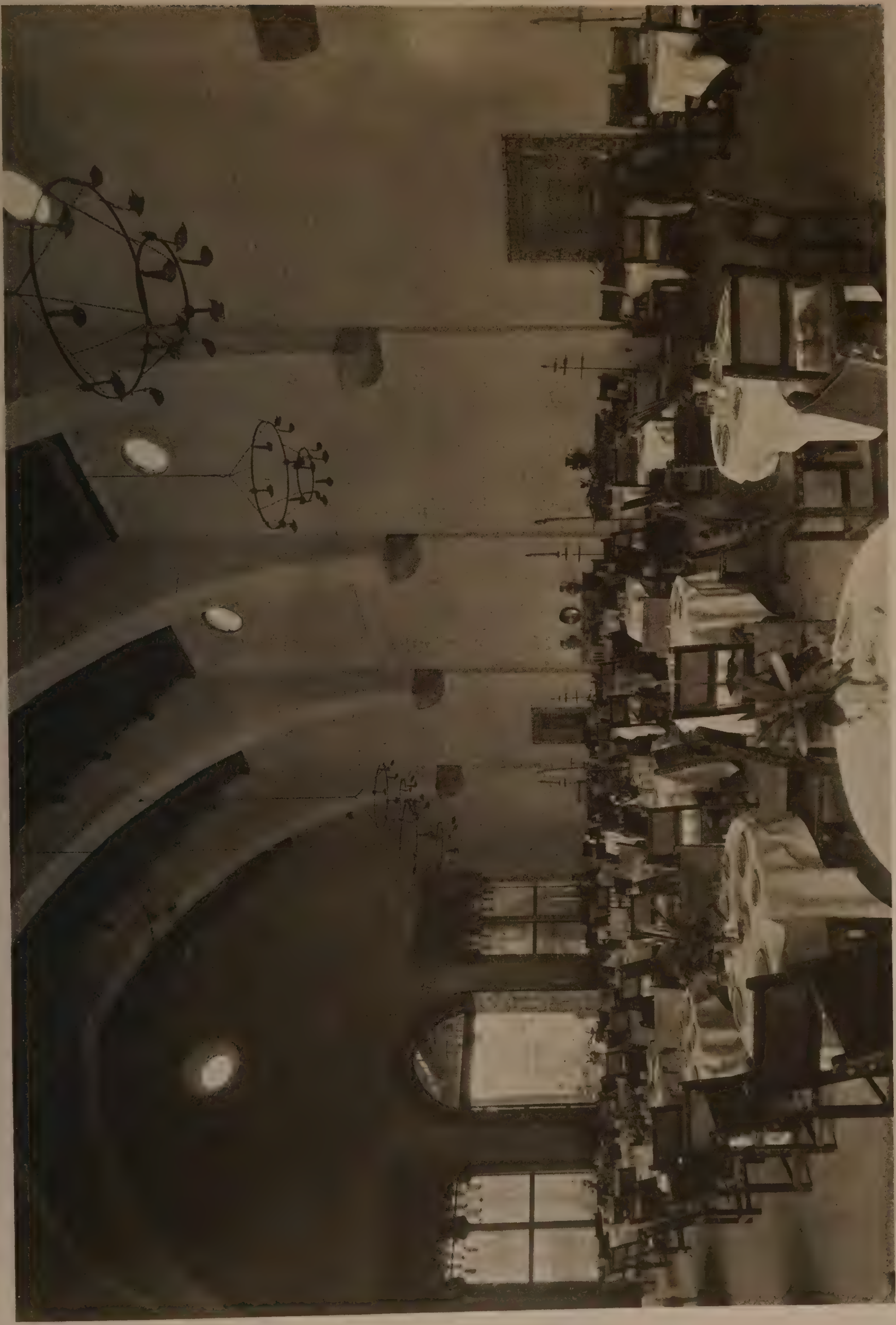


Photo. F. E. Geisler

RESTAURANT, RITZ-CARLTON CLOISTER, BOCA RATON, FLA.
ADDISON MIZNER, ARCHITECT

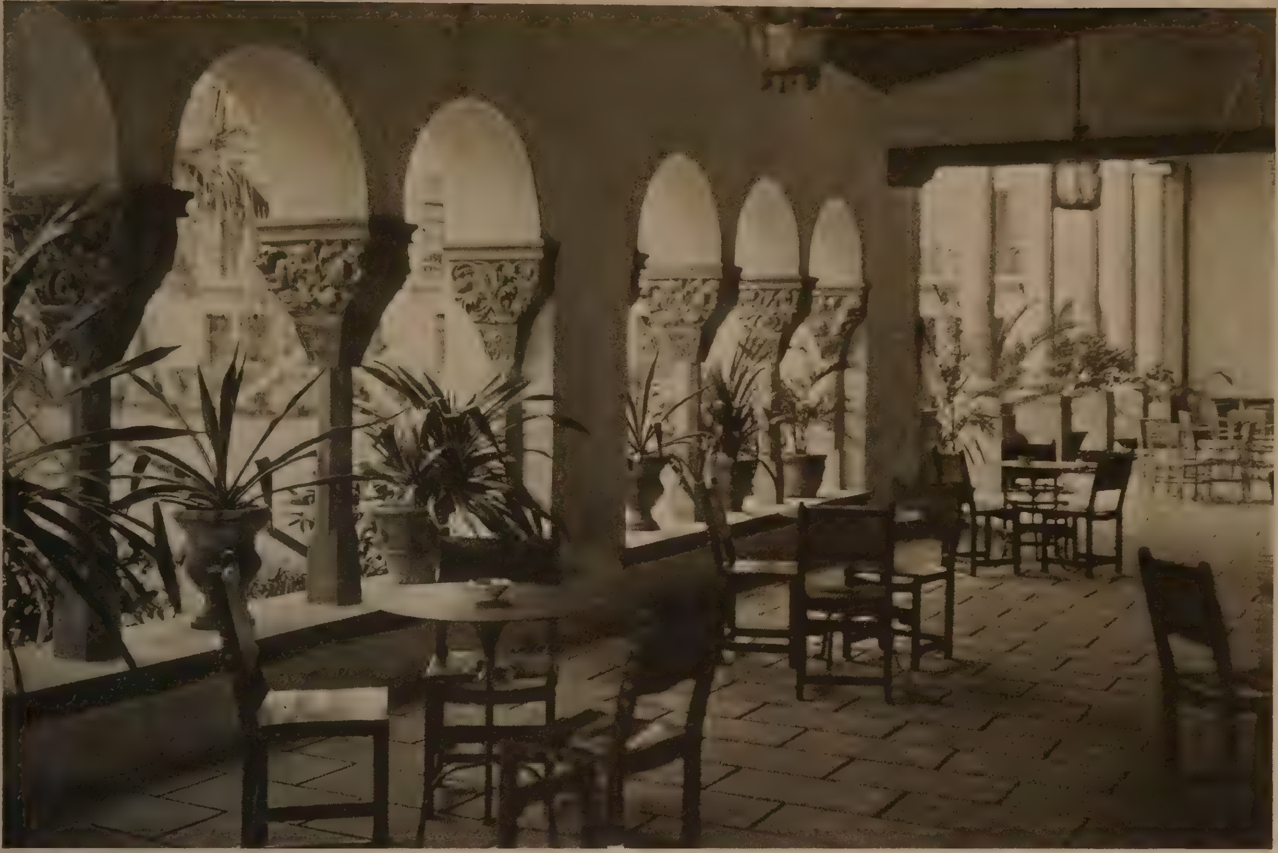


Photo. Ray B. Dame

THE LOGGIA

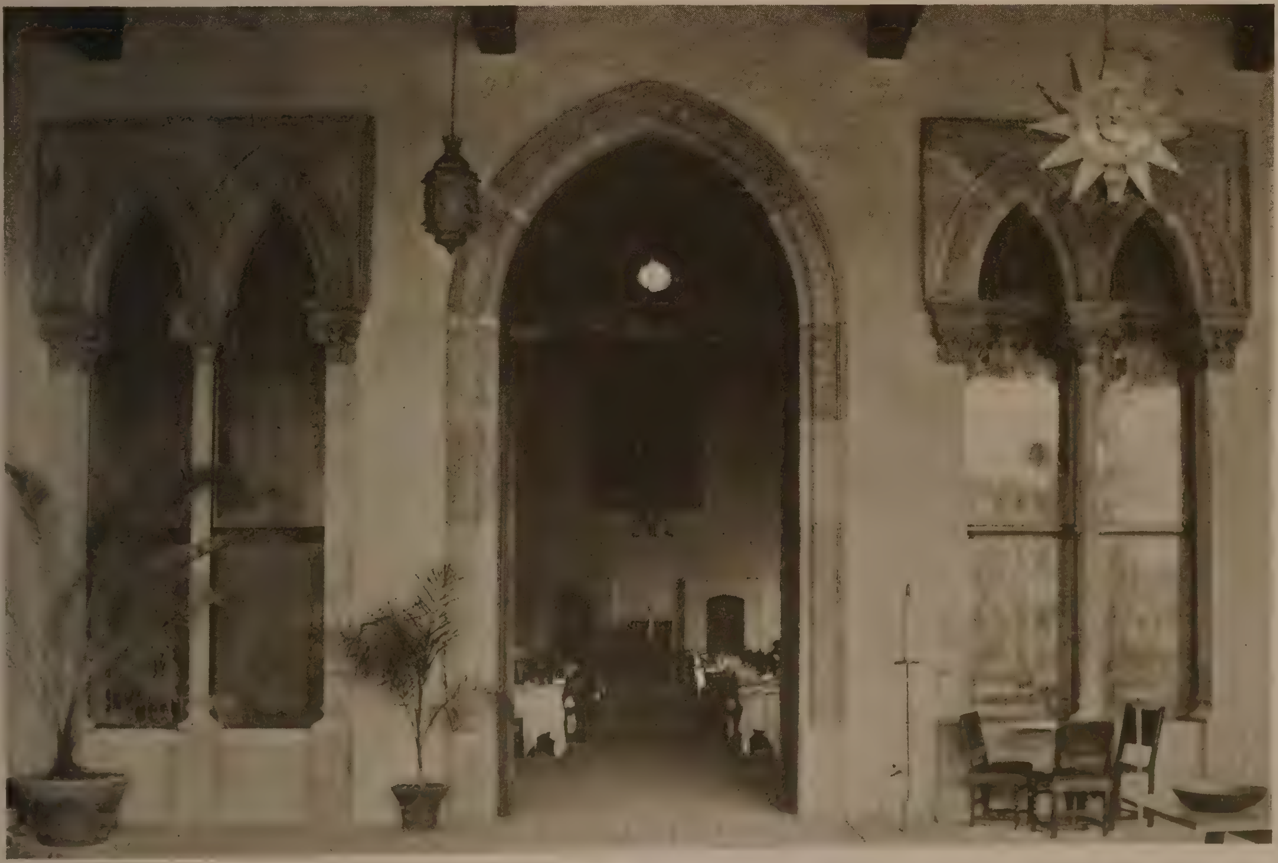
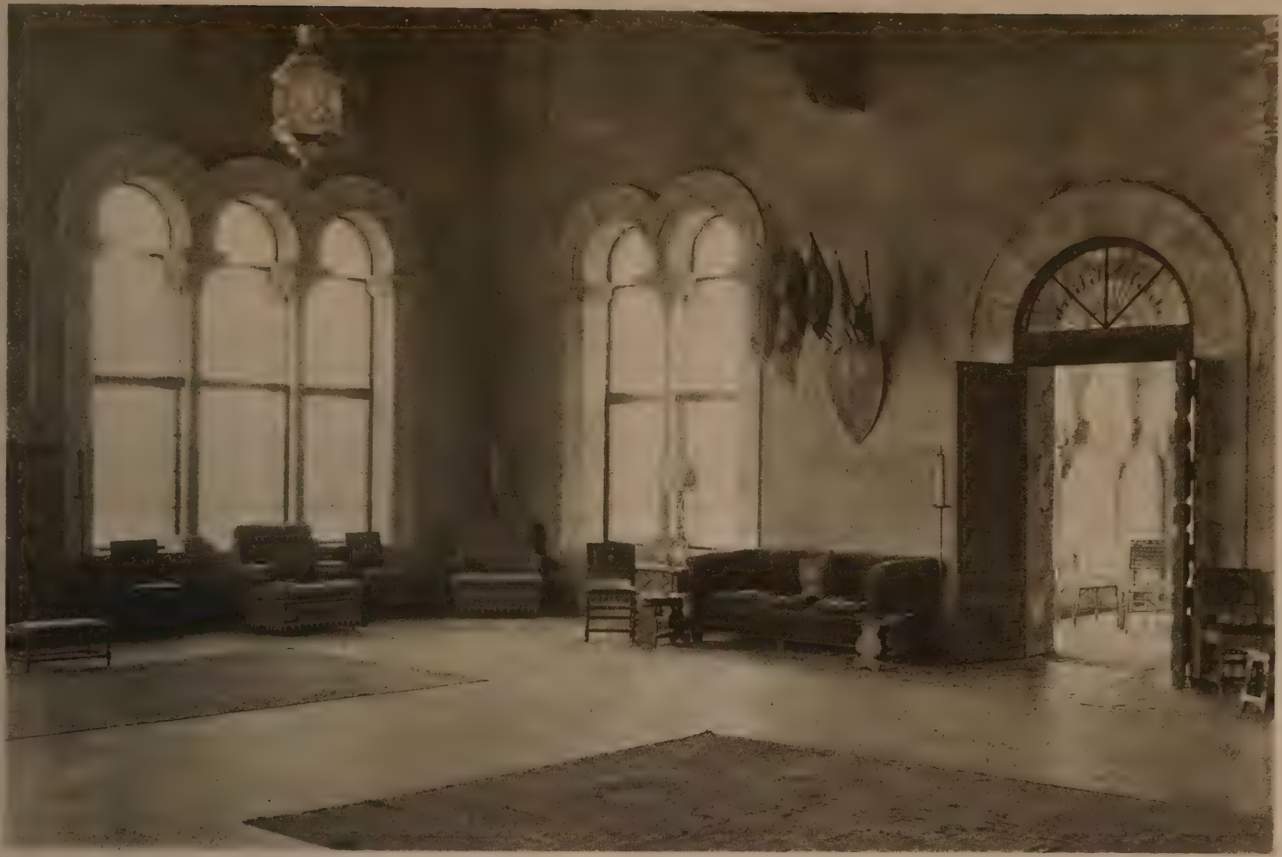


Photo. F. E. Geisler

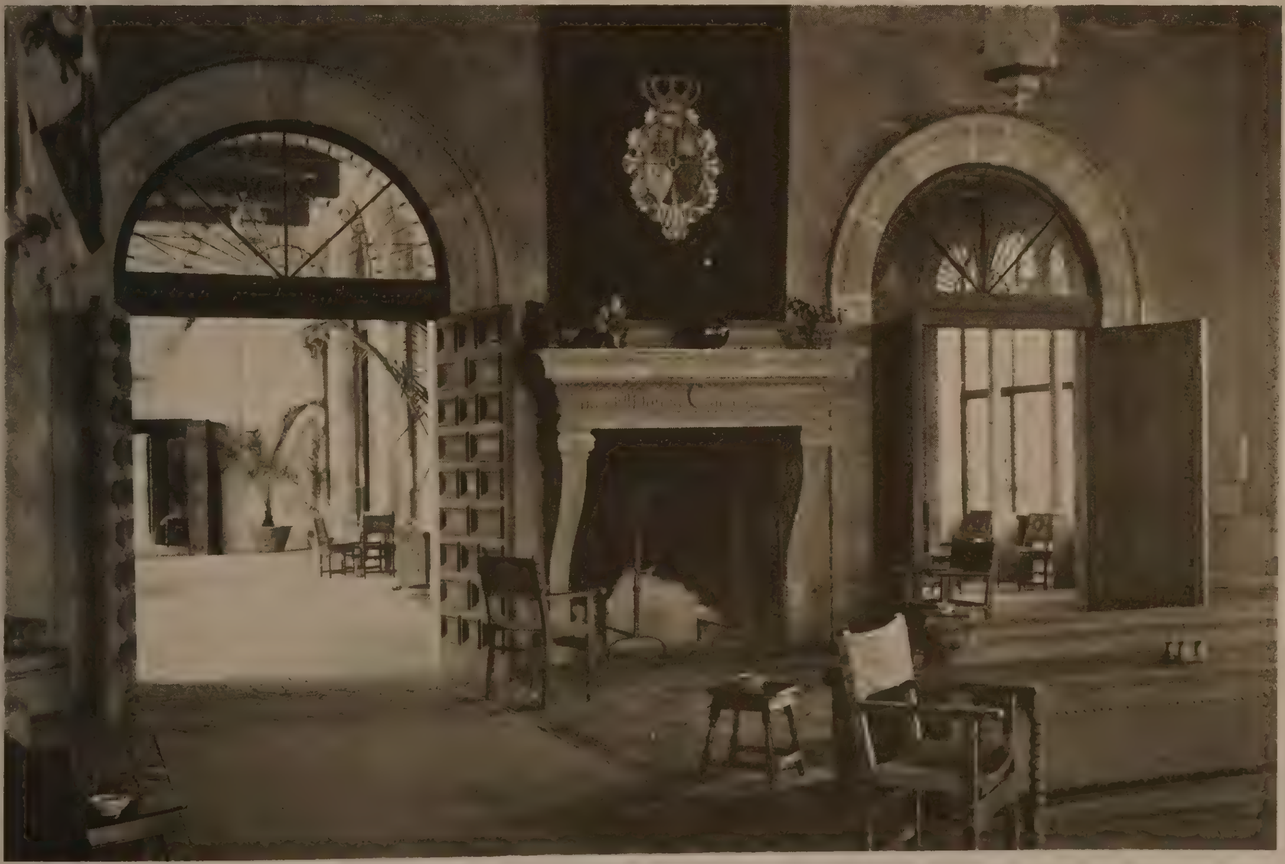
DOORWAY FROM LOGGIA TO RESTAURANT

DETAILS, RITZ-CARLTON CLOISTER, BOCA RATON, FLA.

ADDISON MIZNER, ARCHITECT



ONE CORNER OF THE LOUNGE



Photos. Ray B. Dame

A DETAIL OF THE LOUNGE

RITZ-CARLTON CLOISTER, BOCA RATON, FLA.

ADDISON MIZNER, ARCHITECT

Old English Inns; Part II.

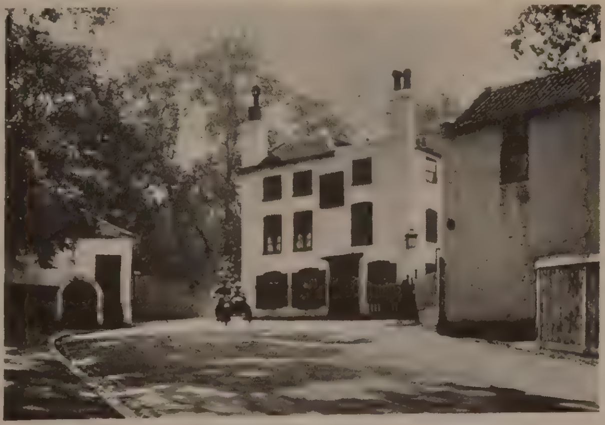
By CLINTON H. BLAKE, JR.

IT is not at all necessary for the seeker of the inns of other days to fare far afield. Some of the most interesting survivals of early English inns are to be found within a short distance of London. The difficulty with many of the inns near London is that they have been ruined by too much publicity and tourist patronage or have been modernized out of all semblance of their former selves. There are many nearby localities, however, where inns, many of them of rare historical associations, may be seen in quiet surroundings and without even ordinary tourist competition to spoil the enjoyment.

Let the visitor to London, for example, ask anyone of the ubiquitous "bobbies" the way to Hampstead Heath, and in a remarkably short time the bus will put him down within easy walking distance of a number of old hostelries well worth his visit. Their names alone,—the "Spaniards," "Jack Straw's Castle" and the "Bull and Bush,"—are a delight to him who has something of imagination. In fact, a fascinating book might be written on the nomenclature of the old inns of England, and yet another upon the signs which still hang above their doors.

By far the most amusing and satisfying of the Hampstead inns is the "Spaniards." It comes upon us suddenly, as we round a curve in the road which runs down from the top of the Heath. It is of Spanish rather than English architecture, and yet it seems to blend delightfully with its surroundings and with the quiet English countryside about. Built of brick, painted white, low and rambling, with green shutters and gay window boxes, it presents a very pleasant sight as one approaches its entrance.

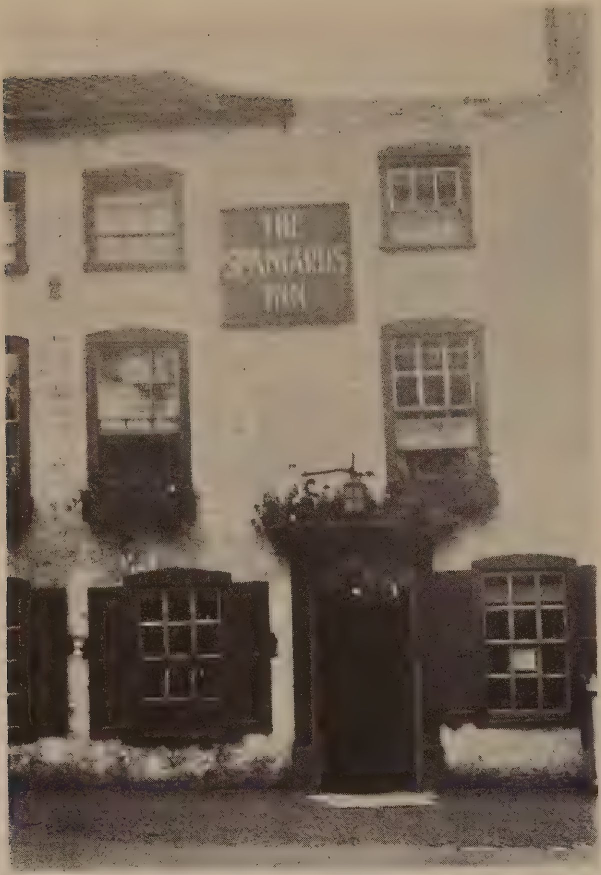
Separate from the main building are two small towers of generally similar architecture, one on each side of the highway. An ideal spot this for the operations of the highwaymen in the olden days! One is not at all surprised to learn that the famous Dick Turpin was a frequent caller at the "Spaniards," and that the inn was closely associated with him and his exploits. There is still a small window which is said to have been cut for his special benefit that, when hard pressed by the king's men, he could receive through it, and without dismounting, a draft of ale and a bite to eat. From the rear of the inn, fast falling into decay, unfortunately, is the old stable, where we are told his good horse "Bess" was stabled. Near by is a typical inn garden with tables and sheltered arbors, where at one's leisure one may sample mine host's refreshments. On the second floor there is a charming old room, the windows of which look down upon the garden, and some rather fine oak paneling and beamwork. Downstairs is the snuggest of bars, presided over by a very efficient barmaid, who might very well be a descendant of the one with whom Dick Turpin flirted. A few feet away is a fine old paneled room (now unfortunately painted green), where the traveler who prefers to rest indoors may do so to his heart's content, quite undisturbed,—an ideal spot where the traveler may repose.


The "Spaniards," Hampstead Heath

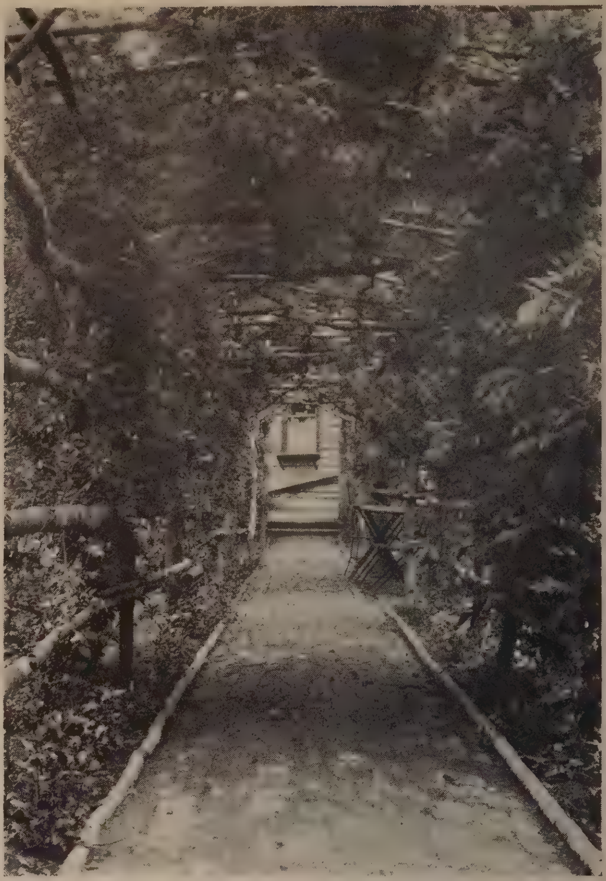
Due to its special Spanish architecture, the "Spaniards" is distinct from the ordinary type of English inn of equal age. It is typically English, however, in its atmosphere of unhurried quiet and restfulness. One may eat and drink, or sit for hours without issuing an order, as one will. This absolute freedom to do as one wishes, free from the importunities of officious clerks or waiters, is one of the most delightful characteristics of the wayside inns of England. The traveler may come and go as he pleases. He who orders a glass of beer or ale, or merely sits and smokes a friendly pipe, without any purchase, is as welcome as he who spends a week and orders the best which is available,—all very different from what obtains in America!

Curiously enough, "Jack Straw's Castle" has also a distinct touch of foreign architecture. It is far more Italian than English in its exterior appearance. It stands upon the top of the hill above the "Spaniards" and commands an extended view across the Heath to the city in the distance. It was named for Jack Straw of "Watt Tyler Rebellion" fame, and is said to be between four and five hundred years old. Neither within nor without, however, has it the charm or interest which characterizes the "Spaniards." It will be sufficient if we pause here for an excellent luncheon on our way to the "Bull and Bush." As we eat at one of the long balcony windows, we may look across the valley to the dome of St. Paul's and the dark area about it which is London wrapped in its smoke.

Strolling down the hill a matter of perhaps a mile, in a direction different from that which



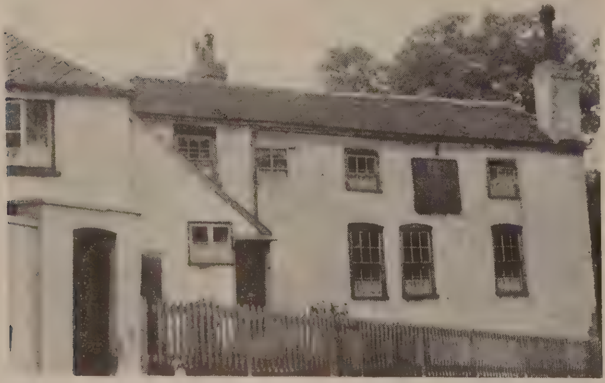
Main Entrance, The "Spaniards"



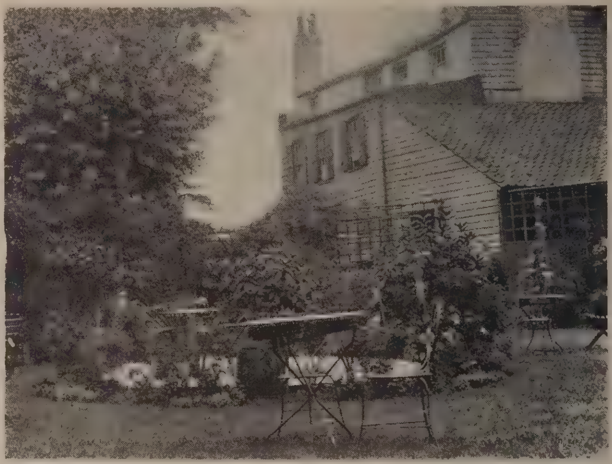
In the Garden, The "Spaniards"

we followed to the "Spaniards," we come to the "Bull and Bush." It is the most famous of all the inns near Hampstead, and was a famous rendezvous of many celebrated literary men in days gone by. Here Hogarth lived for some years, and here, so we are told, gathered Addison, Gainsborough, Garrick, Joshua Reynolds, Lamb, Coleridge, Sterne and many others. The "Bull and Bush," however, has not escaped, as has the "Spaniards," the devastating touch of modern "improvements." It has recently been changed almost beyond recognition by the addition of a new front and by thorough general modernizing which has gone far to rob it of its former atmosphere and charm. It still retains, however, largely unchanged, its famous Hogarth room. A splendid room it is in truth, with its delightful windows and glorious black oak. The beamwork of the ceiling is especially noteworthy, and here for a moment one can pause and forget the concrete walks and other equally inappropriate innovations, in the recollection of the "Bull and Bush" of other days.

I was fortunate enough to secure from the landlord a pamphlet giving some of the history of this old inn. Among other interesting material, the pamphlet contains extracts from an account of the inn which appeared in Payne's "Wine and Walnuts,"



The "Spaniards," from the Highway



The Garden, The "Spaniards"

and which describes a visit to the "Bull and Bush" by Reynolds, Garrick, Sterne, Caleb Whitefoord, Bunbury and Payne. Some parts of the account are rather interesting by reason of the celebrities involved and on account of the picture which they give us of the "Bull and Bush" of that day.

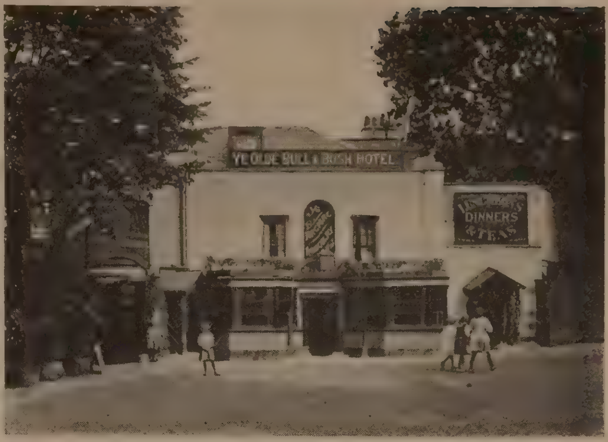
"Sir Joshua, at length, was prevailed upon to make an idle day: when Gainsborough observed, 'Reynolds has already entered into an agreement with me, that the next time he played the truant it should be to take a trip to Hampstead; so let him look to his bond.'"

* * * * *

"We assembled at Garrick's, on the Adelphi Terrace, according to agreement, and found the chariot already at the door. Gainsborough had invited Caleb Whitefoord, who had arrived. Reynolds drew up as St. Paul's struck six, which we heard from the Thames. We were all punctual to the minute, excepting Mr. Bunbury, who was a quarter of an hour after his time, 'which must be excused,' said Sir Joshua, with his accustomed good nature: for Garrick began to fidget, and pull out his watch ten times in a minute, as he heard the impatient horses paw the ground. 'Consider, my friend Davy,' said Reynolds, 'we are waiting for a young man of fashion, whose movements are neither controlled by parish clock nor prompter's bell.' Bunbury at length appeared fresh from the toilette. His elegant manners graced an apology for being beyond his time. When all was right, as the postboys say, off we set, one of the gayest Cockney parties that ever stole a march beyond the reach of city smoke. The man of fashion drove his phaeton, so that together our cavalcade made a figure on the road."

* * * * *

"'What a delightful little snuggery is this said Bull and Bush,' observed Gainsborough, as he poured the new milk into his breakfast cup. 'Faith! there is cream upon't. And what a table cloth! Damask—Dutch damask by the Lord! bright as the geese that flap their wings there upon the Heath.'"



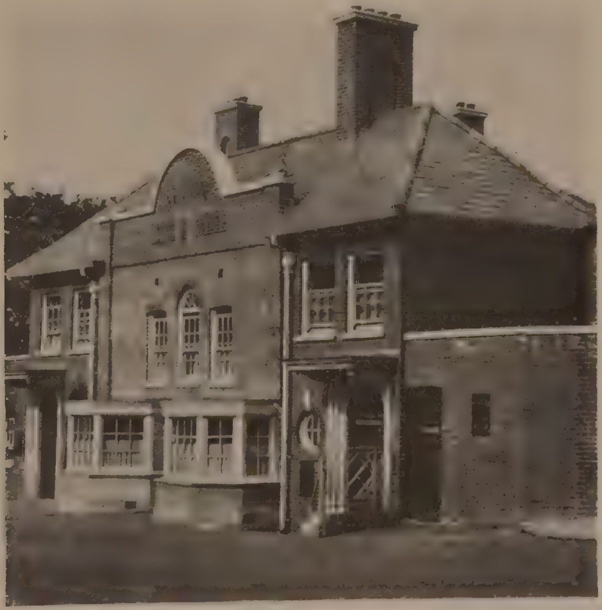
The "Bull and Bush," Before Remodeling

* * * * *

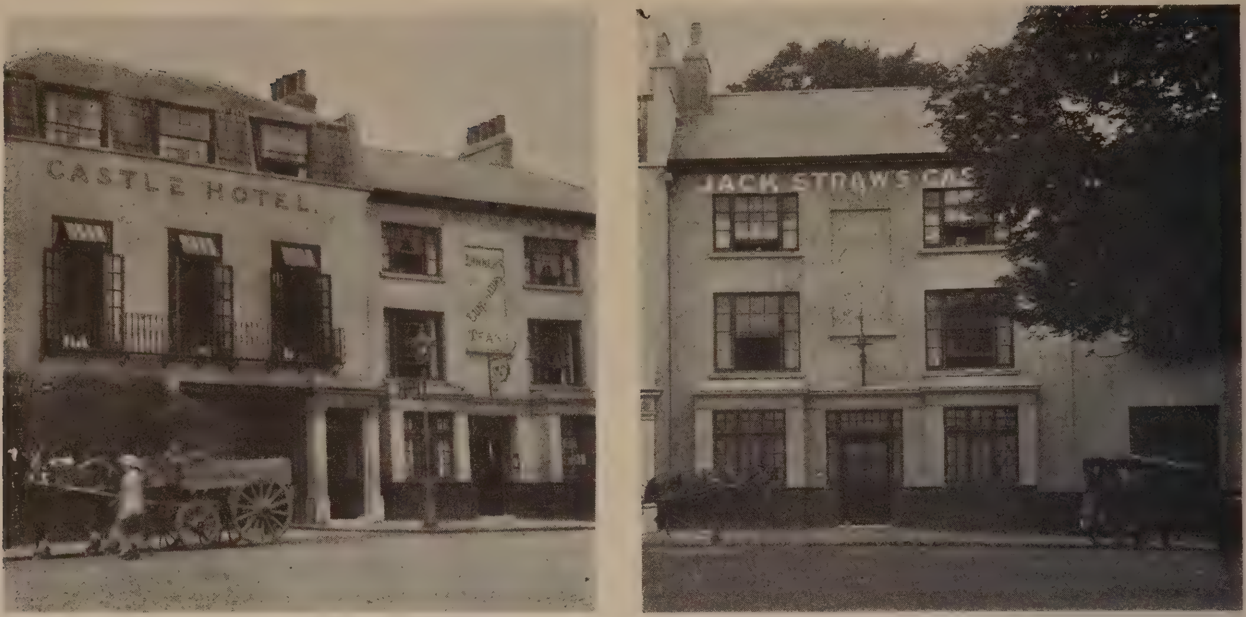
"'Do tell me, Sir Joshua, and you other traveling luminaries, pray have they any such delectable, healthy, stomach-wetting little inns abroad?' asked Gainsborough. 'As I hope to be saved, I am as hungry as a winter wolf. By the powers, I am calculating upon dinner in the midst of breakfast. Let us knock up a bill of fare. Item, four dainty little white chicks, with a gizzard tucked under one arm and liver under t'other; parsley and butter—did you see that double-headed parsley in the garden, Reynolds?' 'No, I did not; it escaped me.' 'No, sir; why, where were your chromatics?—trees in miniature, a fairy wood, green as an emerald—and not see it! Yes, white-legged chicks and streaky bacon. Didst see the peas, Reynolds, turning up the lilliputian hop poles?' 'I did, sir,' answered Reynolds, smiling, "Oh, be thankful to the Lord for preserving your optics,—that's a blessing at any rate.'"

Payne then goes on to give a rather good picture of the principals and of the rural setting of the inn.

Tea Garden, The "Bull and Bush"



The "Bull and Bush," Remodeled

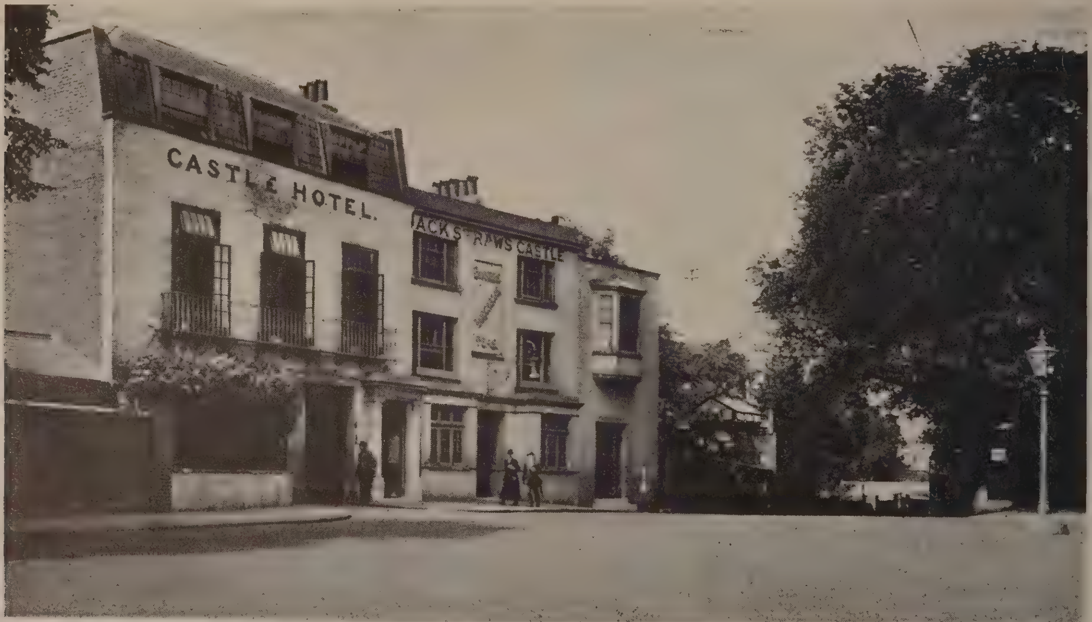


Two Views of "Jack Straw's Castle"

"It could not fail to be a day of days, with such a party. Master Caleb then was a choice spirit, Gainsborough perfectly unique, Reynolds interesting to the very letter of politeness, Garrick a mirror of all that should delight; Sterne's gossip—was it not above all price? and young Bunbury, a promising disciple of that old school—the memory of which might well eke out another tear. I have lately stood and mused on that still spot—upon that hill that faces the back window of our little inn, where, on a space that might be covered with our old club carpet, once stood those worthies, drinking in the pure air, and talking of the beauty of the scene. 'There, Reynolds,' said Gainsborough, 'there, look along this dell; how richly it is wooded. I am no friend to enclosures, yet this picture composes well; yes, beautifully, intersected as it is. Look, Sir Joshua, how that sweep betwixt Hendon and Mill Hill reposes in dusky shade.' "

* * * * *

Such was the "Bull and Bush" in its prime. Such are the memories that the traveler of today will wish to bring to mind, as he saunters through its garden, and overlooking its incongruous modernities, pictures it to himself as it was when the trip thither from London was something of an undertaking, when Hogarth lived within its walls, and when good oak paneling was preferred to wallpaper and to calcimine. He who spends the day at Hampstead Heath cannot fail to carry back with him to the city a feeling of restfulness and of quiet well being, as a result of the hours spent among these old landmarks.



"Jack Straw's Castle," Hampstead

SMALL BUILDINGS

A Criticism of Reproductions in the Early English Manner

By LEWIS BOWMAN

THE ensuing paragraphs must essentially be a criticism, principally of ourselves, the architects, and the all too smug way in which we are producing, all over the country, hundreds of so-called "English" houses. By now the style is pretty well identified in the mind of the average suburbanite. To them it means a house with pointed gables and dark trim, with a front door somewhat resembling one used in a church. Similarly, a "Colonial" house is of shingles or clapboards, painted and using shutters at the windows. Any stucco house at all with a tile roof is either "Spanish" or "Italian." The next detail is relative to size and cost, and it is designated a "big English house," or a "big Colonial house," etc., and that is about all that makes an impression, as our work is generally lacking in skill and detail. Therefore, there is no way of judging houses other than merely generically. In the case of English houses, it has lately become the vogue, as we are all aware, to try to simulate the appearance of old work by reviving the methods and the use of materials employed by the ancient craftsmen. That in itself is a very commendable idea, as the satisfactory use of common material is often extremely difficult, and if such simple lines as these houses demand are carried out in materials that are too set and true, the result is very unpleasing and frequently has a tendency to look cheap.

We can all bear witness to a number of Elizabethan type houses built in this country just before the war that were really designed in the proper spirit and with due regard to detail. But they were finished so hard and true, painted so neatly, and stuccoed so carefully that the result is almost unpleasant. Whether they are as bad as the atrocities that now greet one everywhere, their walls covered with plaster of attempted "texture," is doubtful. Most of the adzed work in these could have been done better by a few boy scouts using their camp hatchets. Of course, if a mechanic were told what adzed work was and why it came into being, the results undoubtedly would be better. Until recent times, sawmills were rare, and it was a laborious task to haul heavy pieces to the mill. It was comparatively simple to square up a log where it fell, make out of it the piece wanted, and haul that to the site. The broadaxe usually left a very coarse texture to the stick, and where it was meant to show (as in half-timber work), it was finished smoother with a sharp lipped adze or sometimes a scrub plane. A skillful mechanic can use a lipped adze with such precision that the piece is quite smooth, showing only a slight variation in the surface. Hacks and splinters and such marks would in this class of work be out of place, as they were trying to make a good job. But, being craftsmen, they saw that the pieces were plenty "good enuf" as they came from the adze, and "let well enuf alone." I have found that the easiest way to get results is to find a man that really has used an adze and knows the tool; they are not uncommon. Then ask him to make the smoothest job possible using this tool in the accustomed way.

As all trees are not straight, and as timber in England has always been scarce, they were compelled to use some pieces not entirely true. If one looks at the typical English oak as it grows, one will notice that it is very gnarled, and to get all straight timber would have been almost impossible. Likewise, oak is very treacherous in structural work. That is, if one wants the timbers to remain perfectly level and plumb, that they will not do, as

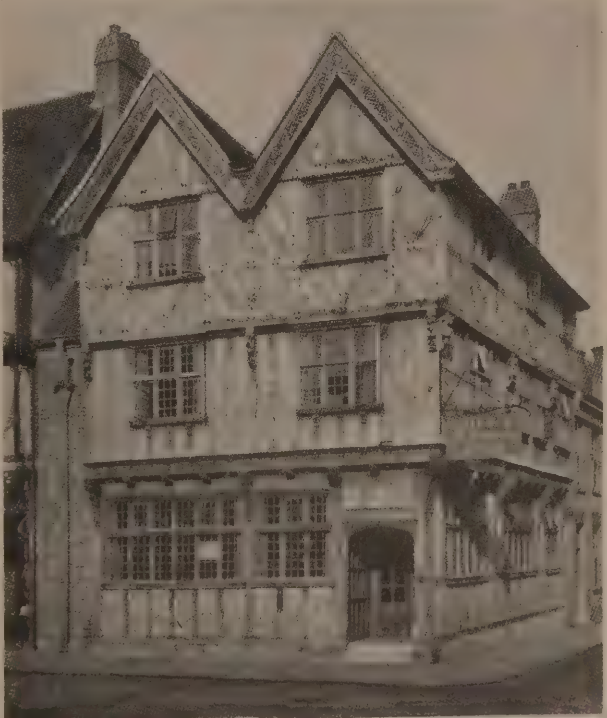


Illustration from Country Life

National Provincial Bank, Stratford-on-Avon

The Dining Hall, Sulgrave Manor, After Restoration

Illustrations from Country Life
The East Front, Dorney Court, Buckinghamshire

they twist and bend and bulge and do everything that they should not do. But, curiously, the result is not often satisfactory.

The use of tenon pins in false half-timber is another bit of comedy usually staged in connection with our so-called half-timber work. For a pin to be used, there must be a tenon behind it. I have actually seen innumerable cases (and have had it happen on my own work) where the pins were put on the pieces that should contain the tenons. This is presupposing, of course, that we are using false half-timber and stucco. The use of false half-timber has very often been severely criticized, but as it is almost impossible to make solid oak weather tight, due to shrinkage, it has become a mere form of wall decoration. Where brick filling is used, it is about as easy to use solid timber in parts of the country where it can be had.

And where in the old country can anyone find precedent for such terribly rough stucco? As we all know, Portland cement is a product really of our own time. The old work was made from many mixtures, having lime putty (which set very fast) as a base. A plasterer trying to float it smooth had a hard time to keep up with it, and with him as with the man with the adze, almost smooth was "good enuf." The same with brick. They were hand moulded and handled, and they warped in the fire. The different yards, due to transportation troubles, did not bother to bring other materials from elsewhere to mix in to correct this fault as they do today, so the brick mostly used were a crude local product. The brick used for the finer houses were usually Dutch or Flemish, and curiously enough they still prefer these imported brick in England. But one never sees in old work those lumpy, blistered. and contorted pieces of rubbish that today we call "artistic." Then, as now, a self-respecting brick mason would have thrown them into the dump; but he would not have objected to using them if they were "almost" perfect.

And where originated the idea that an old roof could be duplicated or even successfully imitated? In the first place it is absolutely impossible to reproduce an English cottage roof. Many of them are covered with thin split slabs of stone, of a light gray color. which are thin but thick in proportion to their sizes. Stone was used even in the old days in preference to slate, because English slate is very thick, black and ugly. Old tile is also difficult to imitate, but several of our manufacturers are soon to place on the market a reproduction of English tile. So, perhaps, we may yet have some of those fascinating pale red roofs to help brighten our drab countryside. The thatched roof does not stand the extreme changes of temperature found in most parts of our country.

Our designs, to sum up, are, on the whole, woefully unstudied and unskilled, and the great

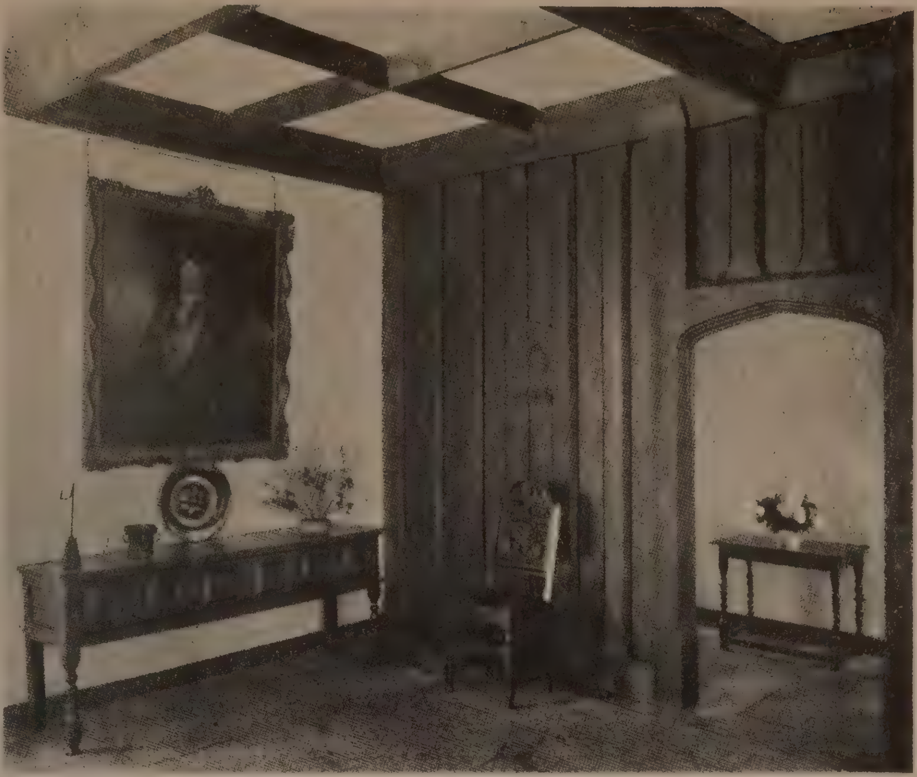
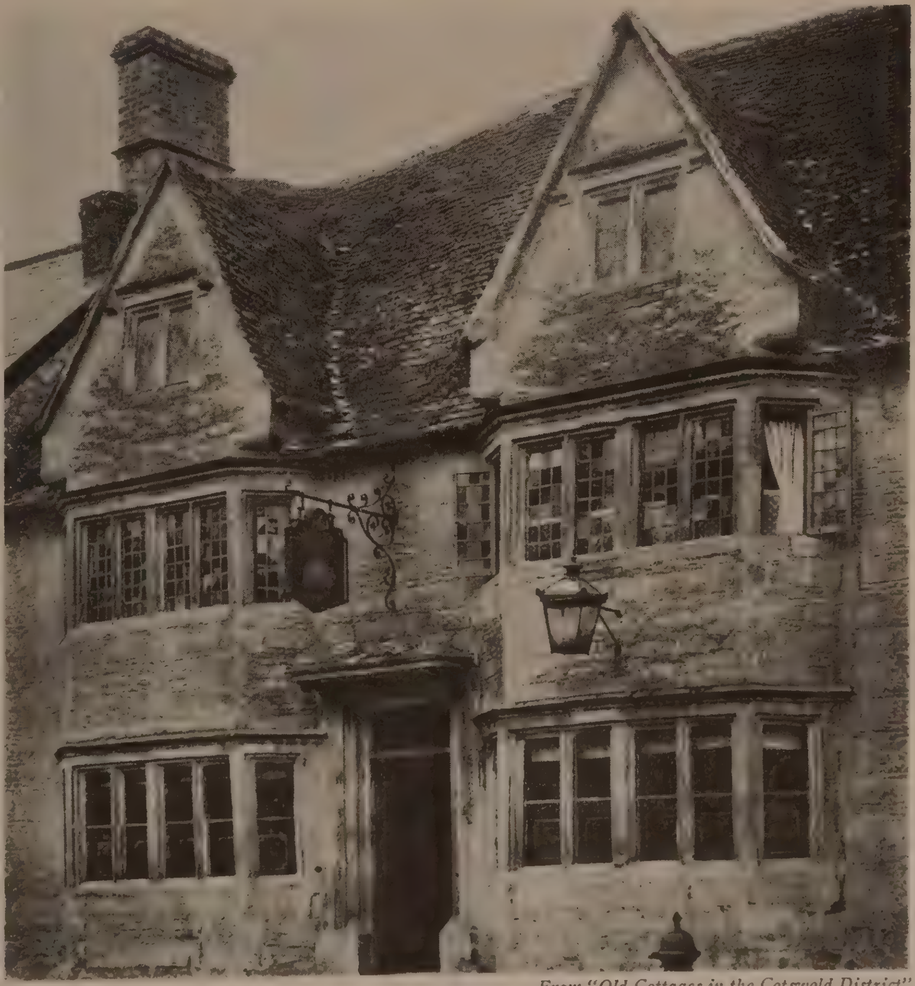


Illustration from Country Life

Oak Screen, Dining Hall, Sulgrave Manor


From "Old Cottages in the Cotswold District"

The Swan Inn, Techlade, Gloucestershire

majority of the designers are wholly ignorant of the precedents they try to follow. I believe that if a good, honest artisan of the Tudor or Jacobean period should be reincarnated and be able to see what we have accomplished in imitating work of his times, he could find a round dozen (more likely less) houses in this whole country of ours that possess the picturesqueness resulting from the skillful use of common materials as used in his day. One very good and obvious explanation of our poor showing is that we fail to realize that this work is not really "architecture" and cannot be taught. It is actually craftsmanship; masonry and carpentry; brick, stone, and oak used with loving care and a consummate appreciation of their structural values. The modern English architect, even with the actual examples before his nose, usually "muffs" it,—but not as often as we do. The period itself was crude and unschooled, and one is often asked if it is quite in the way of progress to go back so far for our ideas. My answer is that the day is not far off when some architect will build an English house which has all the spirit and charm of the many examples of this period left to us. After that we shall all impatiently watch for signs of real progress and improvement. By this I mean not only a deeper appreciation of the underlying qualities which give to early English domestic architects its fascination and picturesqueness, but also a consistent and logical use of the several elements which definitely mark this style. So subtle is the spirit of these early buildings that great care must be taken in their composition and the legitimate use and scale of the elements which characterize them. No rules can be laid down which will insure the creation of a distinctly picturesque bit of architectural design; inspiration and an innate feeling for beauty are absolutely essential.

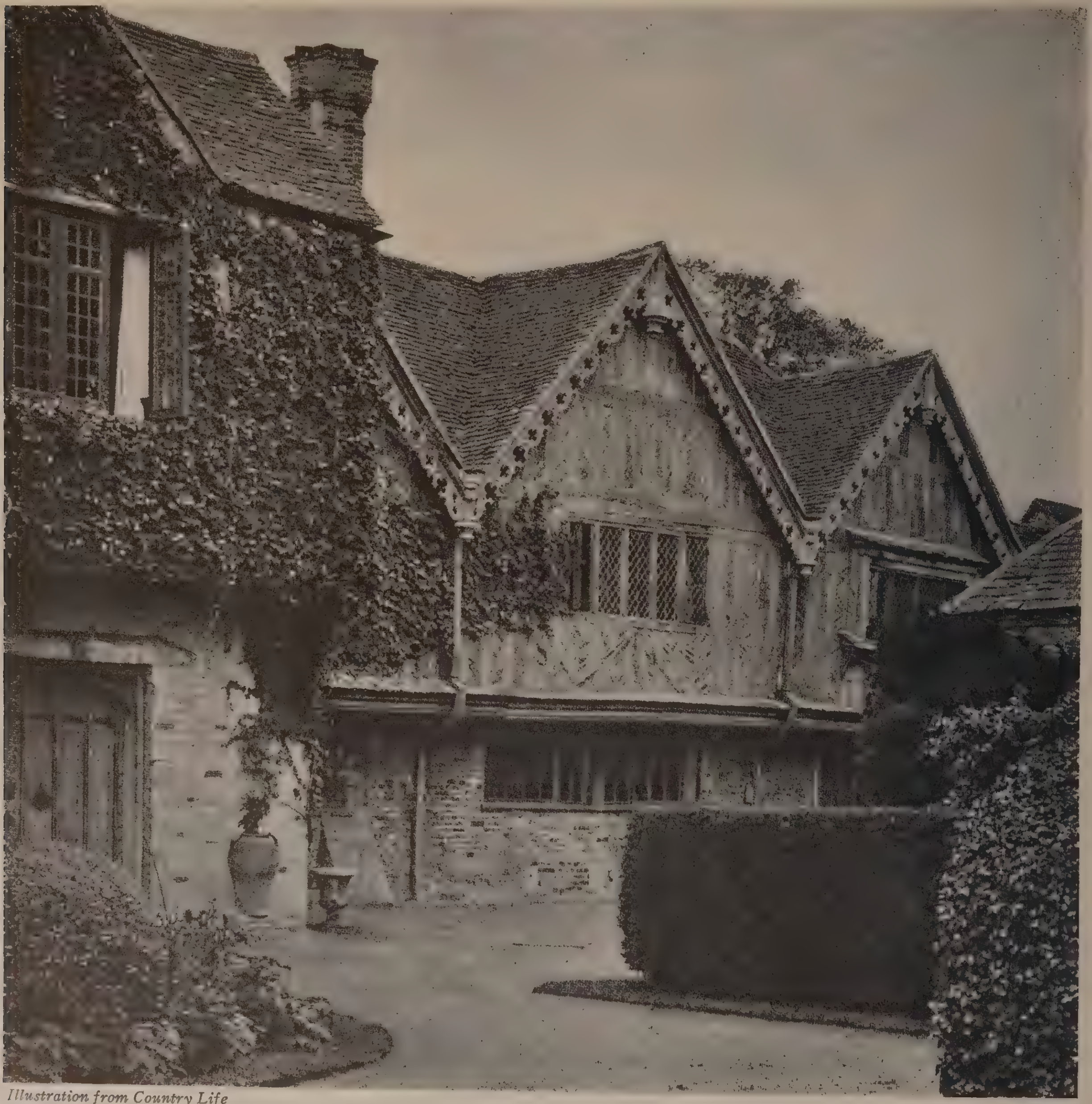
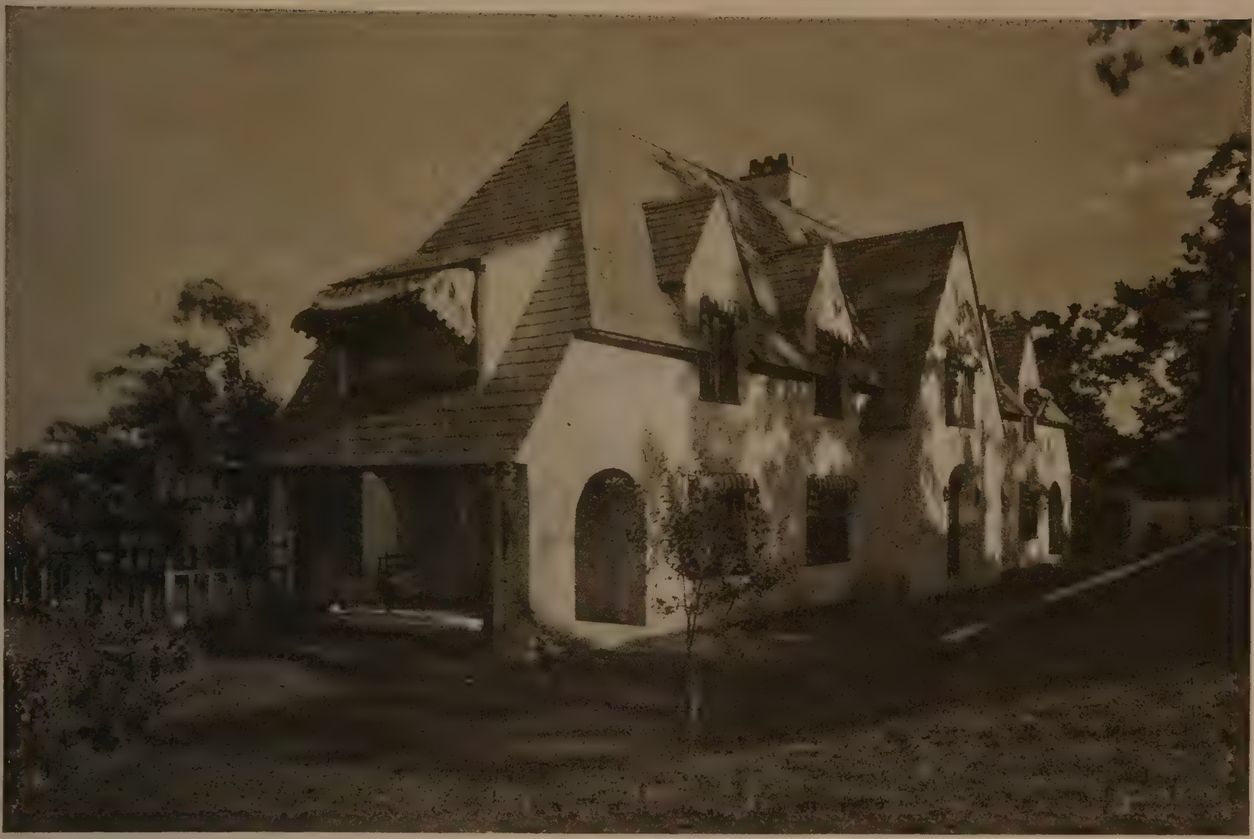


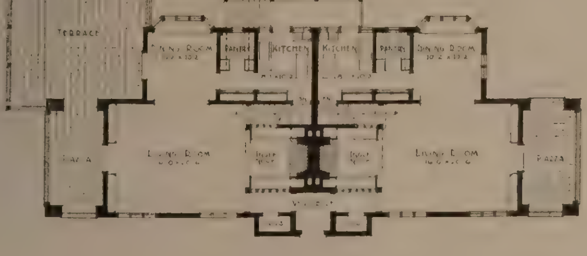
Illustration from Country Life

The Kitchen Gables, Dorney Court, Buckinghamshire

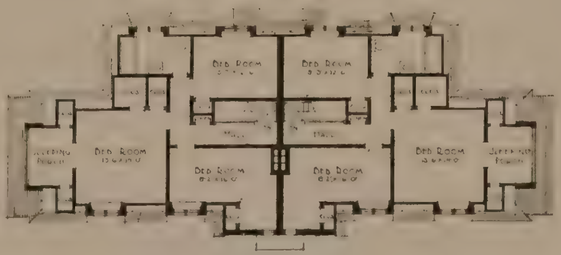


TWO-FAMILY HOUSE AT NEWTONVILLE, MASS.
DANA SOMES, ARCHITECT

HERE is an excellent example of a small double house carried out in a simple adaptation of English cottage architecture. The use of high dormers, so placed that the slope of the roof starts midway of the windows, provides sufficient practical wall space for the second story rooms. Use of tinted stucco and practically no trim around the window and door openings, and very little overhang to the eaves, produce a clean-cut, straightforward effect characteristic of many of the recently designed English houses. Carrying the slope of the high hipped roof down over the living porch at one end of the building obviates the necessity of having an unseemly flat-roofed projecting porch, which seldom looks well on an English type of house. A desirable openness to the porch is achieved by the lack of obstructing posts or piers across its longest side. This building also shows the decorative effect produced by the use of gay awnings on a severe exterior. The wide dormer on the sloping roof over the living porch undoubtedly makes an attractive feature as a sleeping porch for the main bedroom, but it does not add to the artistic effect which would have been achieved had the long sloping roof at this end of the building remained unbroken. Unfortunately, architects are frequently obliged to set aside artistic considerations in favor of practical convenience or the special requirements of their clients. The front elevation is logically broken by the entrance bay, the roof of which is effectively brought down to a point slightly below the line of the eaves of the main roof. This entrance bay is symmetrically balanced by windows and dormers on either side, giving a formal touch to an otherwise informal design. This com-



First Floor



Second Floor

FORUM SPECIFICATION AND DATA SHEET—150

Two-Family House at Newtonville, Mass.

Dana Somes, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame.

EXTERIOR MATERIALS:
Stucco on metal lath.

ROOF:
Slate.

WINDOWS:
Wood, double-hung.

FLOORS:
Oak.

HEATING:
One-pipe steam.

PLUMBING:
Brass for hot water supply; galvanized iron for cold.

INTERIOR MILL WORK:
Gumwood throughout.

INTERIOR WALL FINISH:
Sand-finished plaster.

INTERIOR DECORATIVE TREATMENT:
Cream walls; brown trim; paper in bedrooms.

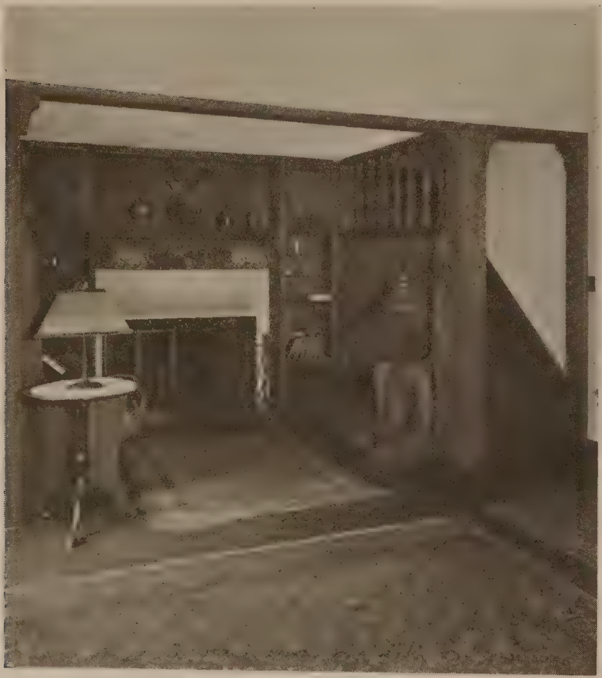
COMPLETED COST:
$25,520.75.

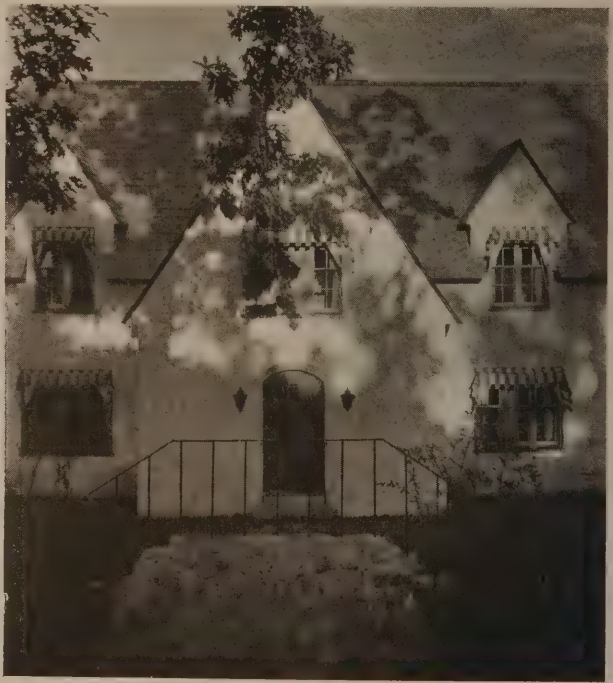
DATE OF COMPLETION:
January 1, 1923.

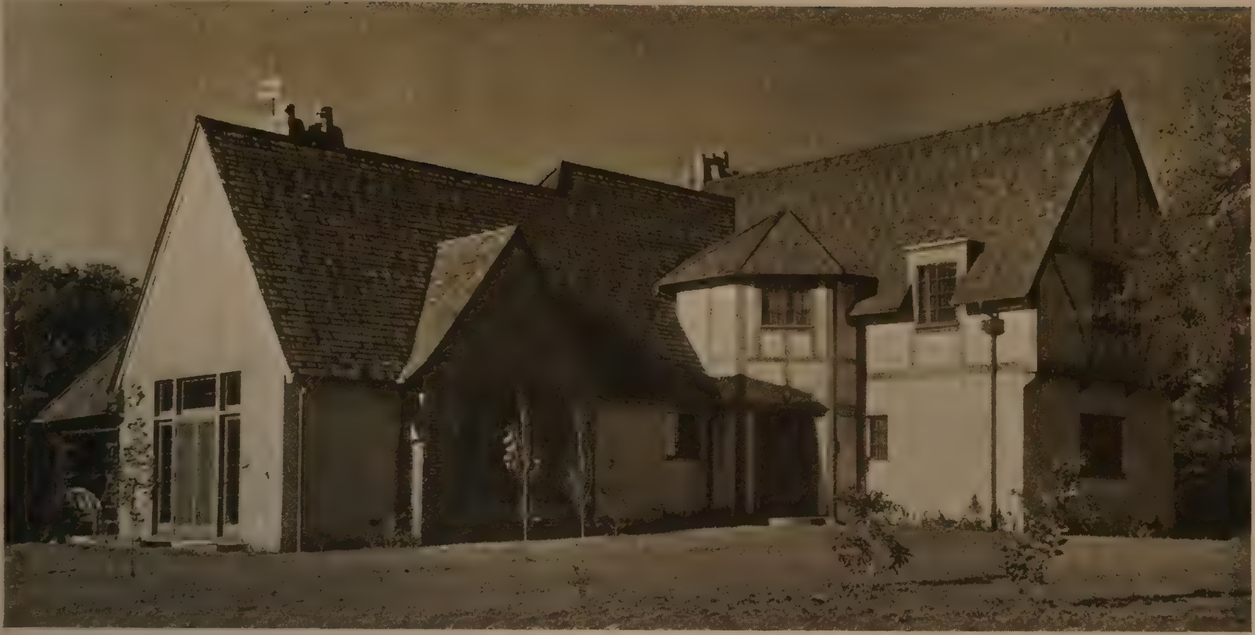
bination of formal and informal is always possible in English cottage architecture, giving to it much of the fascination and charm which render it so popular and which probably cause its widespread use.

The interiors are consistently and successfully carried out in an adaptation of the simple English style of the exterior. The ingle nook off one of the living rooms, shown in an accompanying illustration, gives a homelike touch to this principal room. The enclosing of the stairway which leads out of the living room is always a desirable feature in a house of this size. It makes it possible to curtain off the stairway to prevent drafts in winter. Rough plastered walls and stained gumwood add to the simple and extremely direct English effect of the interior of the building.

The plans of this interesting double house show a similar arrangement of living room, dining room, pantry and kitchen in each half. The only difference in the two halves of the first floor plan is the introduction of a large open terrace connecting with the covered porch at the left end of the building. Each half of the second floor contains three bedrooms and a bath, making a practical and comfortable arrangement of rooms for the use of a small family. One of the interesting and successful features of this design is the use of a single entrance door and vestibule for both of the houses, thus obviating the necessity of constructing two separate doorways which would have deprived the design of much of its charm and dignity. This plan might well be studied by an architect facing the problem of designing a building for two families, a type of structure which economic conditions often render desirable in the suburbs of large cities, and sometimes in the country.


Ingle Nook Off Living Room

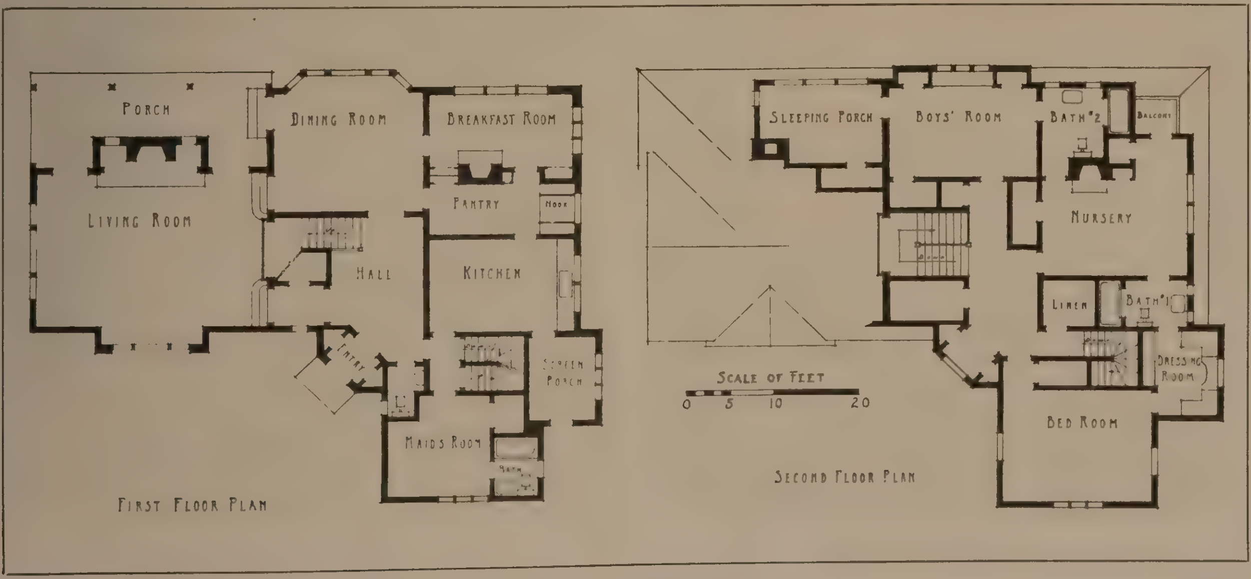

The Entrance Facade



HOUSE OF J. T. PENTON, ESQ., PASADENA
KENNETH A. GORDON, ARCHITECT

WHEN one thinks of architecture of the Pacific coast, the Spanish or Italian type of house usually comes to mind. But here is an attractive example of the use of the English type of country house in a California setting. Half-timber design is effectively introduced in the several gables, pleasantly breaking the monotony of the plain stucco-covered wall surfaces. The inclusion of the living porch under the main roof of the house is an excellent idea, giving greater length to the lines of the main roof, and producing a pleasant mass of shadow at one end of the house to balance in a measure the group of casement windows which light the breakfast room at the opposite end. The rough hand-hewn timberwork harmonizes well with the rough cast of the stucco-covered walls. Both the front and the rear elevations of the house are so pleasing that it is difficult to decide which of the two is the more successful. The placing on the main front of a two-story semi-hexagonal bay in the angle formed by the two wings of the house makes an attractive architectural feature and accommodates excellently the entrance door. The break in the roof lines of the two wings, as well as the introduction of the living room bay carried out in half-timber patterns and brick, further adds to the picturesqueness of the design. As indicated on the elevation, the living room is a story and a half in height, adding importance and distinction to this, the principal room of the house, and in entire keeping with its character.

The plan is as irregular and interesting as are the elevations. Entering at the angle made by the two wings, a small center hall with stairway successfully unites the living room and dining room with the



FORUM SPECIFICATION AND DATA SHEET—151

House of J. T. Penton, Esq., Pasadena
Kenneth A. Gordon, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame.

EXTERIOR MATERIAL:
Stucco.

ROOF:
Split redwood shakes.

WINDOWS:
Steel casements (leaded glass in living room).

FLOORS:
Living and dining room, stair hall and sun room, oak planks, random widths; bedrooms, upper halls, maid's room, clear plain oak.

HEATING:
Unit gas furnaces, electric control.

PLUMBING:
Porcelain enameled tubs, showers over. Pedestal lavatories.

INTERIOR MILL WORK:
Pine, and hall panel work birch.

INTERIOR WALL FINISH:
Plaster walls of irregular texture; principal room, white coat and sand finish.

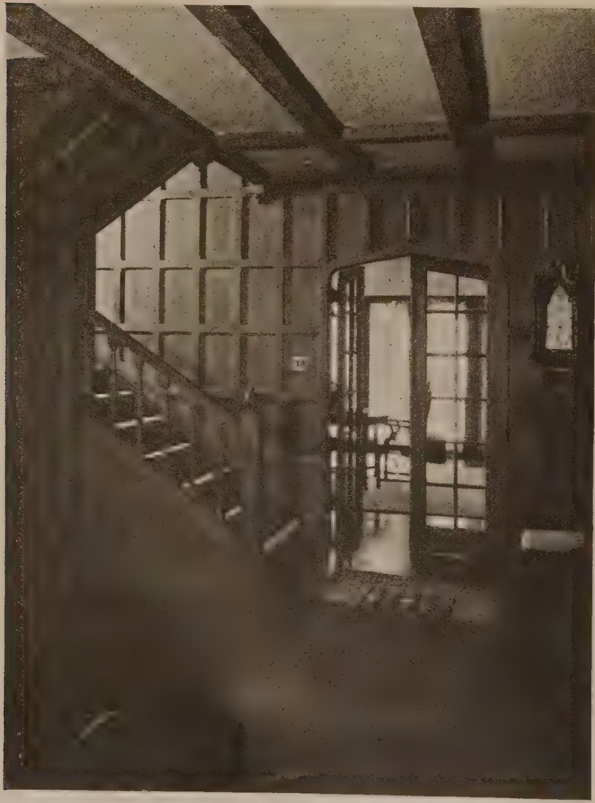
INTERIOR DECORATIVE TREATMENT:
Walls, oil painted and glazed, except bathroom and kitchen; bedrooms papered.

APPROXIMATE CUBIC FOOTAGE:
70,394.

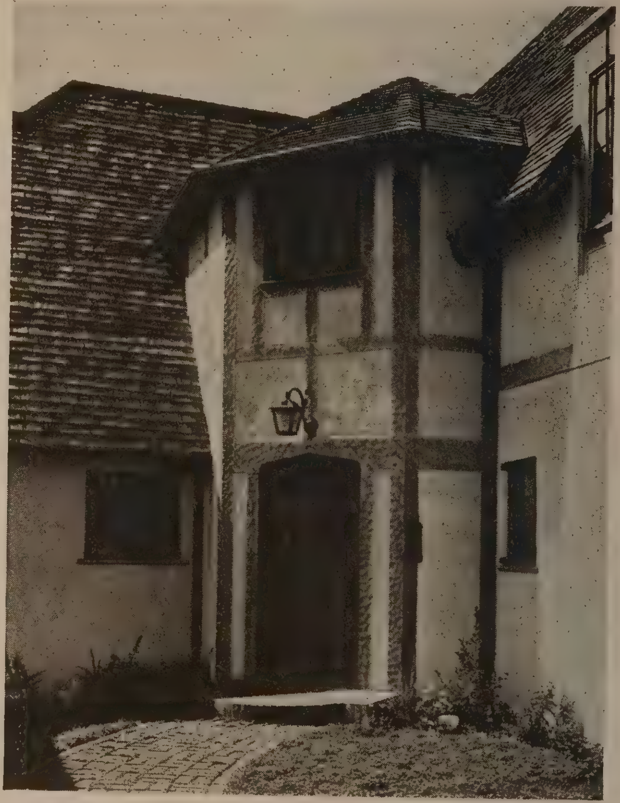
COST PER CUBIC FOOT:
45 cents.

DATE OF COMPLETION:
August 1, 1924.

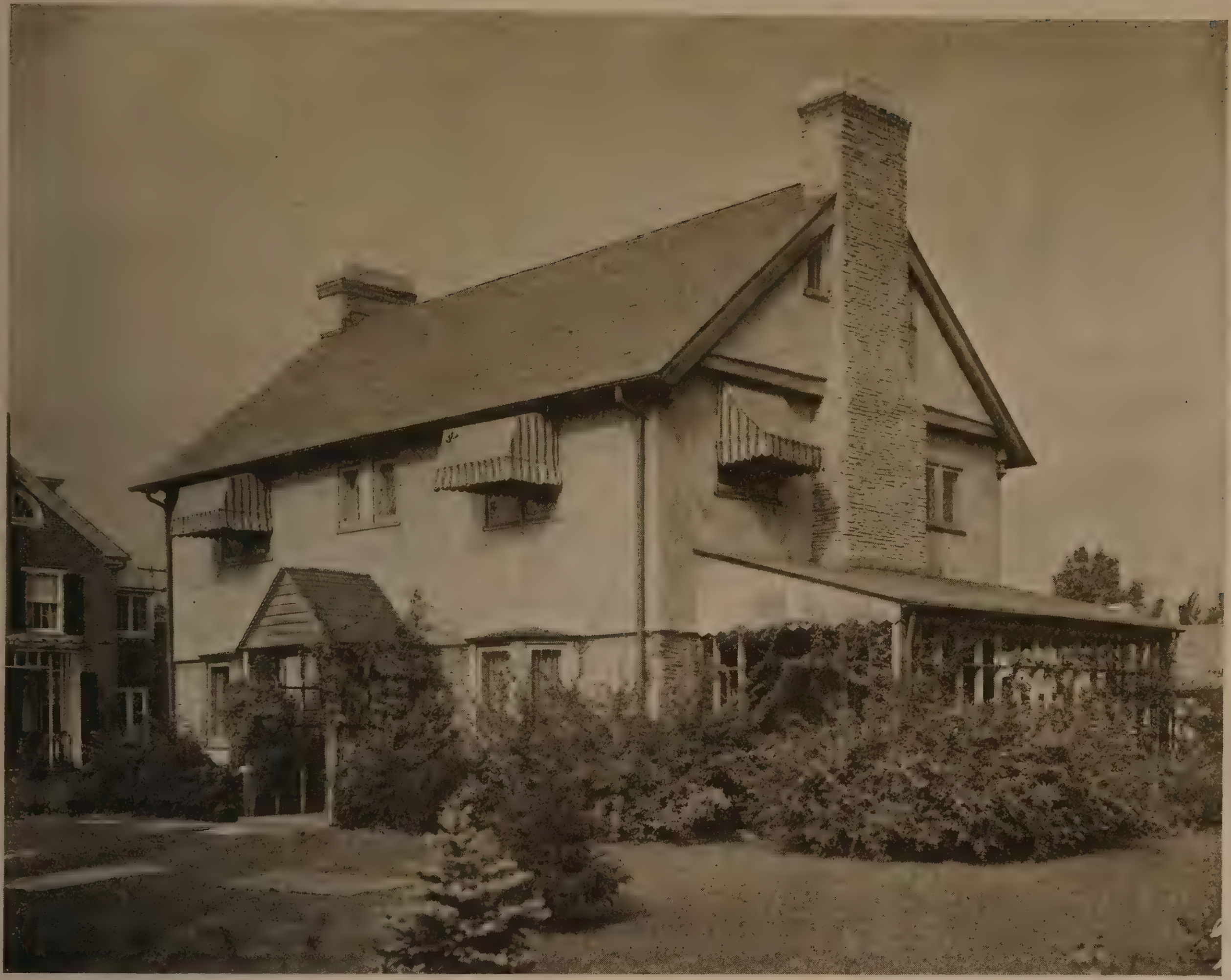
service department. Locating a maid's room and bath on the first floor, objected to by some clients, makes it possible to devote the bedrooms on the floor above entirely to the use of the family. Placing the living room floor three steps below the level of the rest of the first floor, and carrying its walls up into the rafters, give greater height to this principal room. The living porch is also located on the same level as the living room, thus obviating the necessity of having steps to the porch. It is unfortunate that space does not permit the inclusion of an illustration of the rear elevation of this interesting house, since on this side an abrupt drop in the grade permits the introduction of a garage and laundry under the kitchen and breakfast room, an arrangement always desirable in a small suburban house. A small garage seldom possesses any architectural character or significance unless definitely attached to a house by a colonnade, arcade or low covered passageway. The detached garage only too frequently takes up valuable ground space on a lot already none too large for the house built upon it, while a garage which is part of a house often adds materially to its architectural interest by extending its area and the range of its roof lines.



Looking Toward Living Room

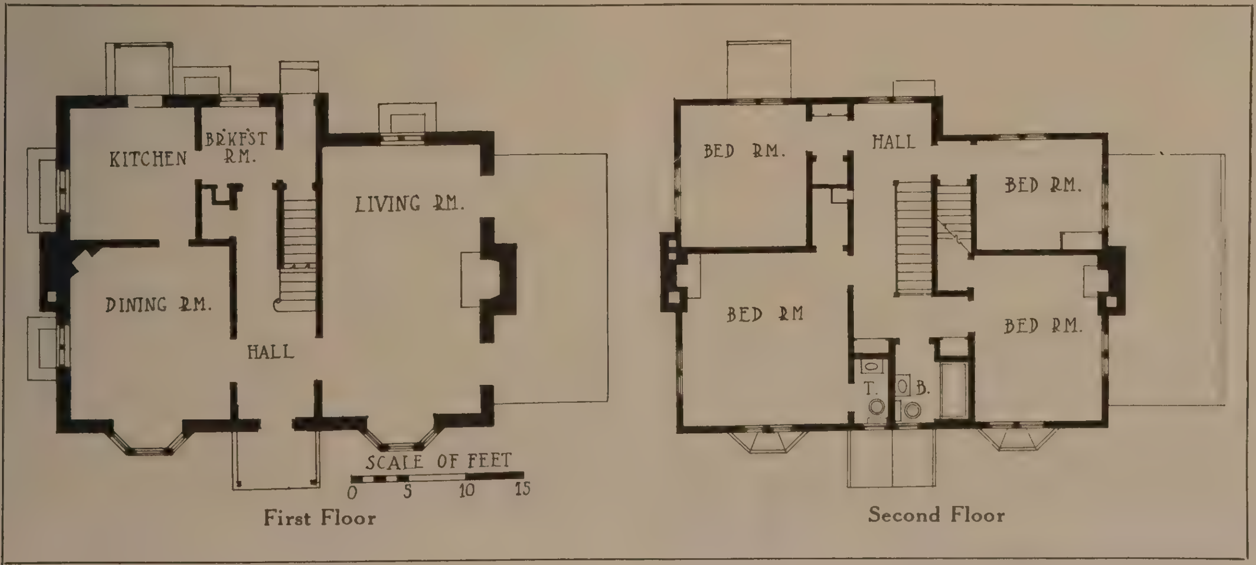


The Principal Entrance



HOUSE OF DR. A. W. HAUER, COLUMBUS, O.
MILLER & REEVES, ARCHITECTS

IT is interesting to see how originality in the treatment of detail and materials can give a quality of charm and strong individuality to an otherwise plain, square building. In Columbus, O., is a small house which well illustrates just this point. The first story and the two end chimneys are faced with stone laid to a flat surface. Placing a small and attractive bay window on each side of the entrance porch with windows above similarly and symmetrically placed gives balance to the front elevation.



First Floor

Second Floor

FORUM SPECIFICATION AND DATA SHEET—152

House of Dr. A. W. Hauer, Columbus, O.

Miller & Reeves, Architects

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Non-fireproof; stone foundation.

EXTERIOR MATERIALS:
Stone, frame and stucco.

ROOF:
Slate

WINDOWS:
Wood casements.

FLOORS:
Oak and pine.

HEATING:
Hot air.

INTERIOR MILL WORK:
White pine and poplar, painted.

INTERIOR WALL FINISH:
Smooth plaster.

INTERIOR DECORATIVE TREATMENT:
Papered.

APPROXIMATE CUBIC FOOTAGE:
34,000.

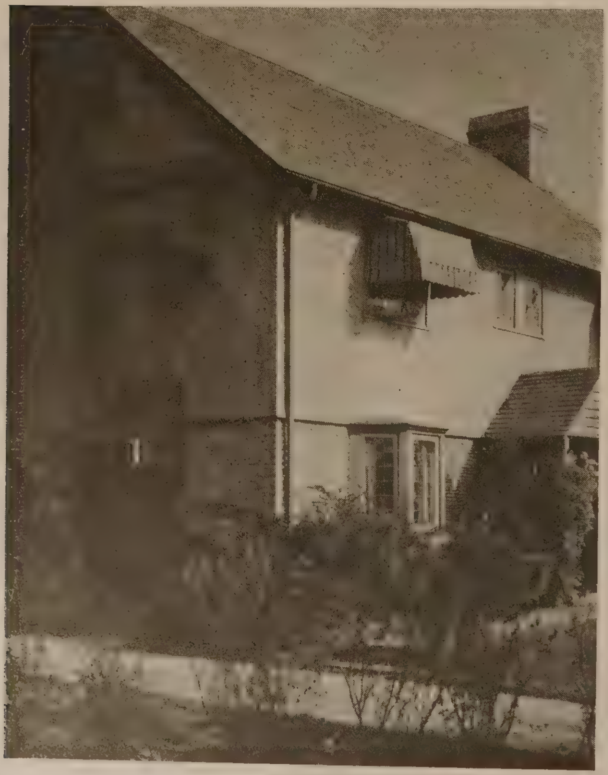
COST PER CUBIC FOOT:
Between 45 and 50 cents.

YEAR OF COMPLETION:
1923.

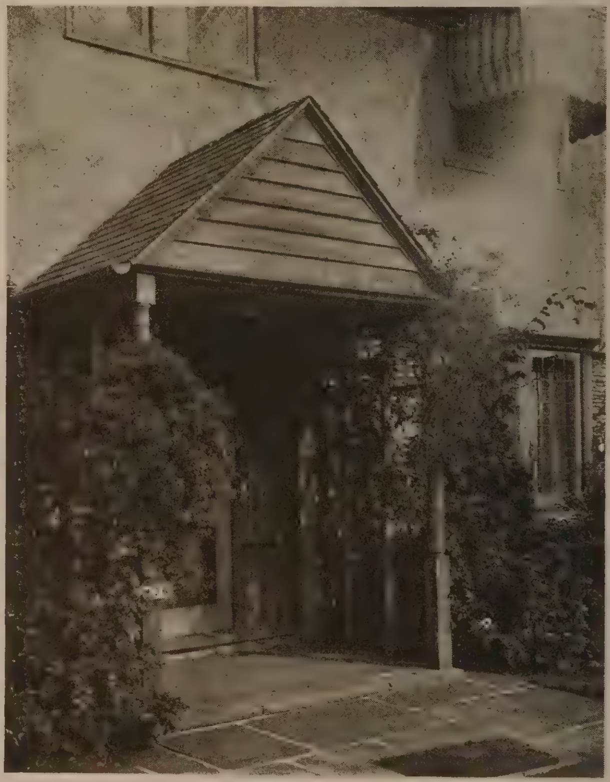
The treatment of the trellises supporting the roofs of both entrance and living porches is original in design. Diamond-paned casement windows suggest English cottage influence, as do also the small bay windows. Excellent and well thought out planting ties the house to its site in a pleasing fashion. It is a pity that additional and sufficiently high planting was not arranged to screen the very modern looking red brick house on the adjacent lot, slightly to the left.

The plan is typical of the usual square or rectangular single house. A center hall with stairway at one side separates the dining room from the living room, the latter opening onto a flagstone-paved living porch across one end of the house. At the rear of the center hall are a coat closet, a breakfast alcove, and a rear entrance. A good sized kitchen connects with both dining room and breakfast alcove. Four bedrooms and two baths and excellent closet space occupy the second floor, from which a stairway leads to two servants' rooms on the floor above.

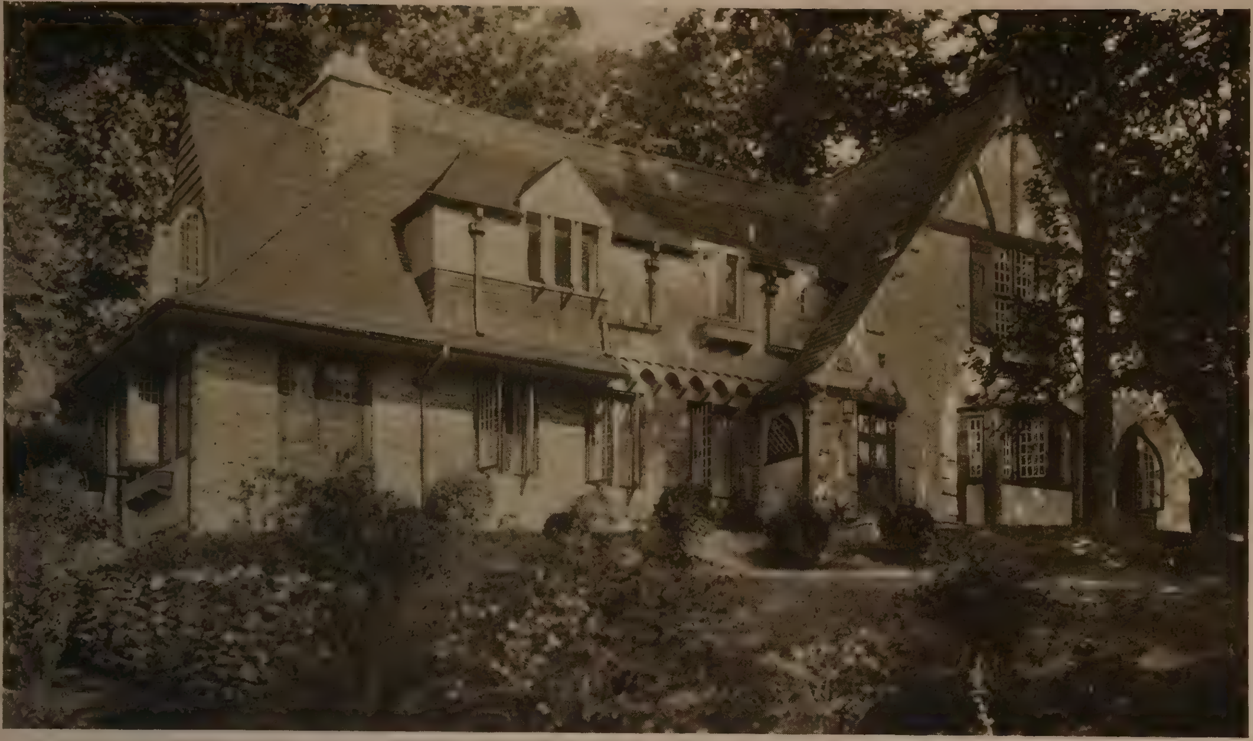
The unusual charm of the exterior of the house is due to its restrained, highly architectural lines, its balance, and the use of stone and stucco, materials use of which always affords a pleasing combination.



Corner of House

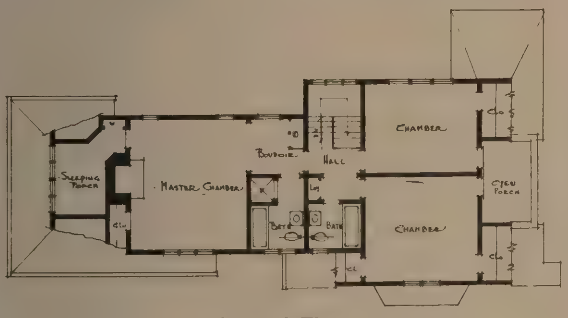


The Entrance

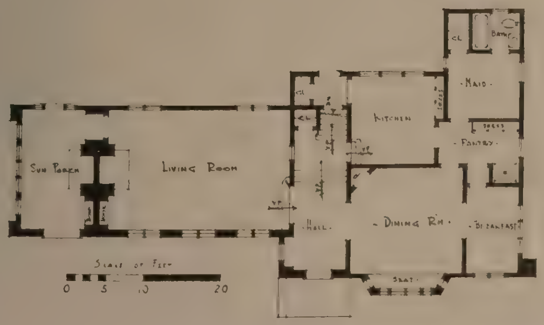


HOUSE OF FRANK G. SCHRENKEISEN, ESQ., NEW ROCHELLE, N. Y.
D. A. SUMMO, ARCHITECT

AN attempt at originality and a decided variation from the usual English type of small house are found in this recently completed building at New Rochelle. Rough stucco, brick and stone, as well as wide vertical siding are the several materials used to produce the original effects found in this design. The high entrance gable with its centered bay window, entrance door on one side and breakfast porch on the other, gives a pleasing bit of balanced design. The proportions of this gable, particularly the relation of its height to its width, are satisfying. The type of bay window used also seems to "belong." A



Second Floor



First Floor

The Entrance

FORUM SPECIFICATION AND DATA SHEET—153

House of Frank G. Schrenkeisen, Esq., New Rochelle, N. Y.
D. A. Summo, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame, stucco, brick veneer and stone.

EXTERIOR MATERIALS:
Stucco, brick and stone.

ROOF:
Stained shingles.

WINDOWS:
Wood casements with leaded glass.

FLOORS:
Oak.

HEATING:
Hot water.

INTERIOR MILL WORK:
Chestnut and white wood.

INTERIOR WALL FINISH:
Plaster.

INTERIOR DECORATIVE TREATMENT:
Parchment colored plaster.

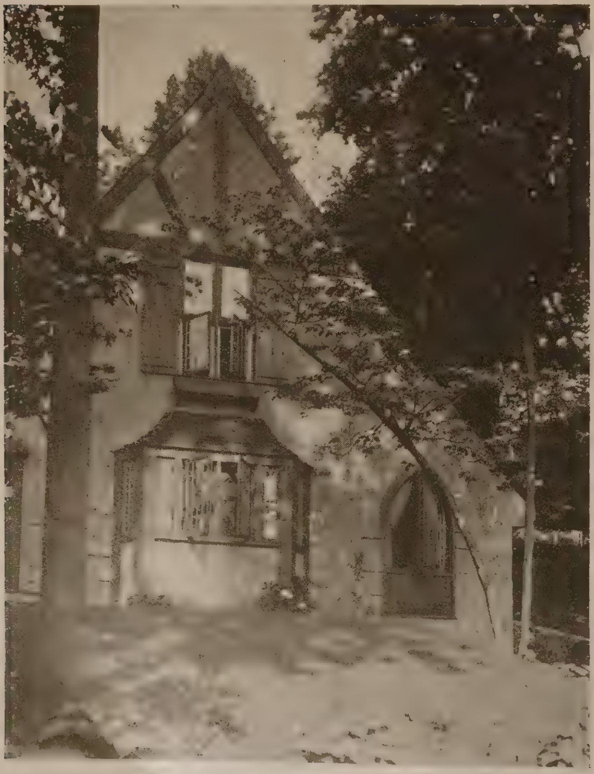
APPROXIMATE CUBIC FOOTAGE:
48,000.

COST PER CUBIC FOOT:
60 cents.

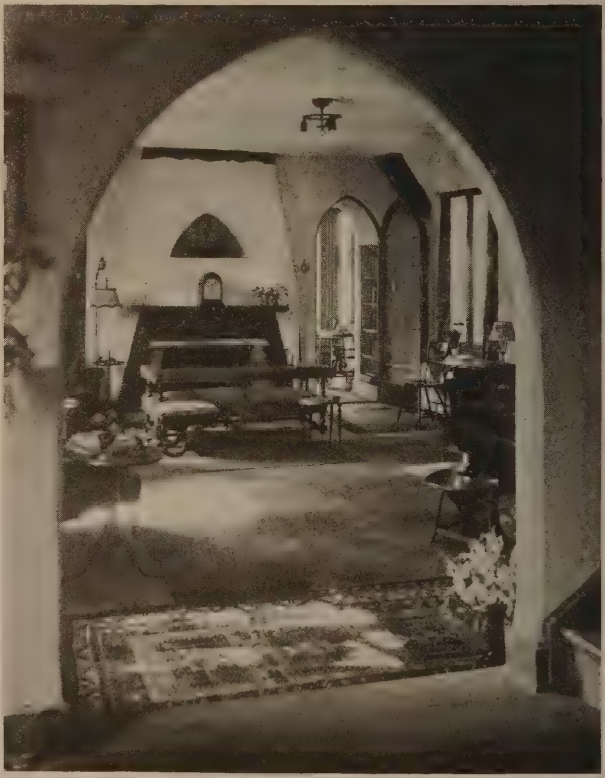
DATE OF COMPLETION:
June 30, 1926.

little restlessness of spirit is, however, found in the many-windowed second story projection which breaks out from the main roof. The corbeled treatment of a portion of the overhang is such a pleasing detail that it is rather to be regretted that it was not carried the entire length of this vertically-sheathed second story. As there is no overhang to the roof on the principal gable of the front elevation, the very heavy projection of the roof at the opposite end of the building seems somewhat incongruous, though it produces a deep shadow which always adds interest. Picturesqueness is often achieved with less evident intent than appears in this varied design. It would seem as though a greater height to the end chimney would have given a more marked and definite balance to the design of the building as a whole.

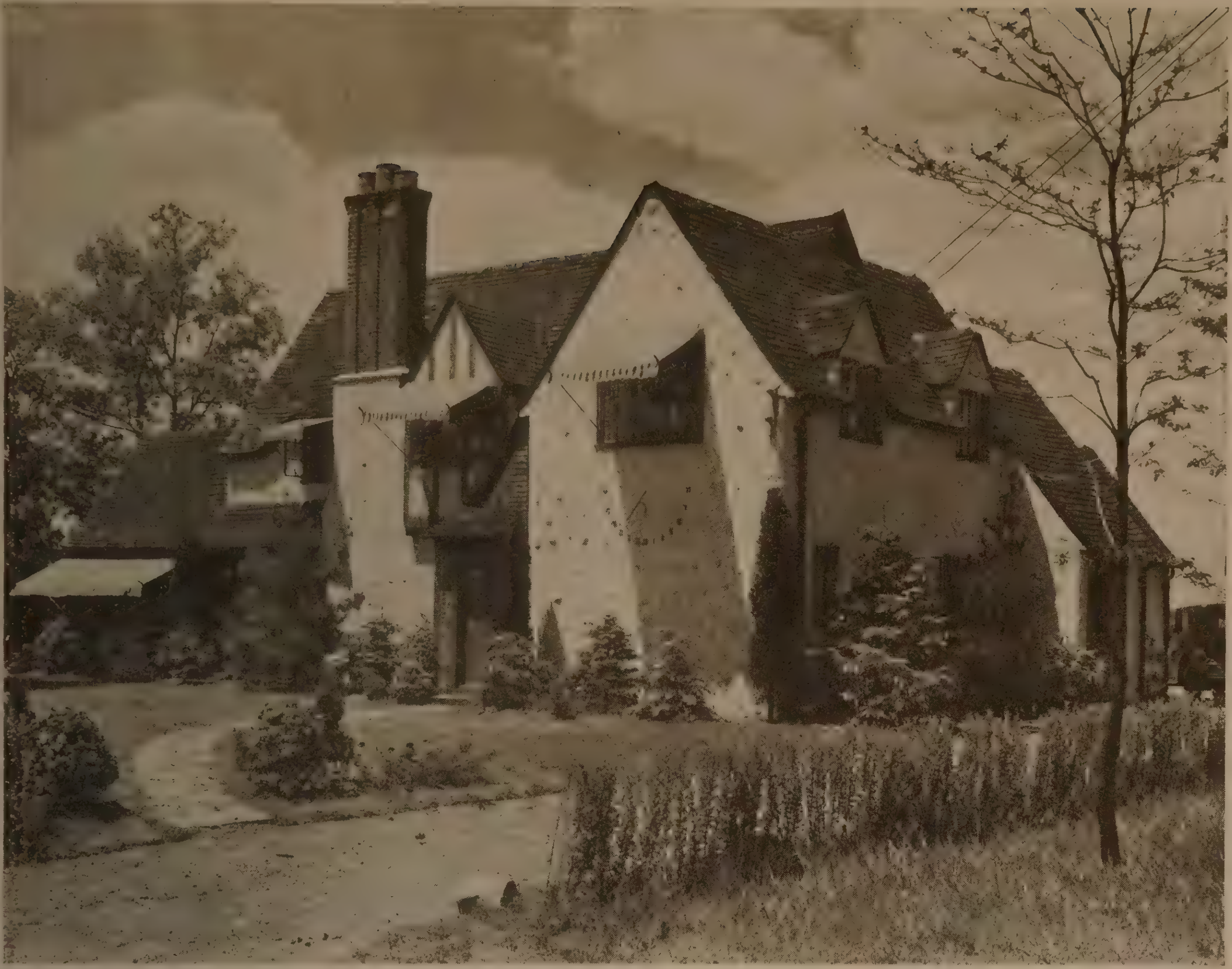
The plan is unusually good, showing a well placed entrance hall with steps at the left leading down into a large living room with an adjoining porch. The dining room, with its attractive shallow bay window and connecting breakfast porch, is at the right. The pantry is so located as to serve both dining room and breakfast porch. Back of the kitchen and pantry is a maid's room with a bath. Three good sized bedrooms, two baths and two sleeping porches are located on the second floor of this carefully planned house.



The Entrance Facade

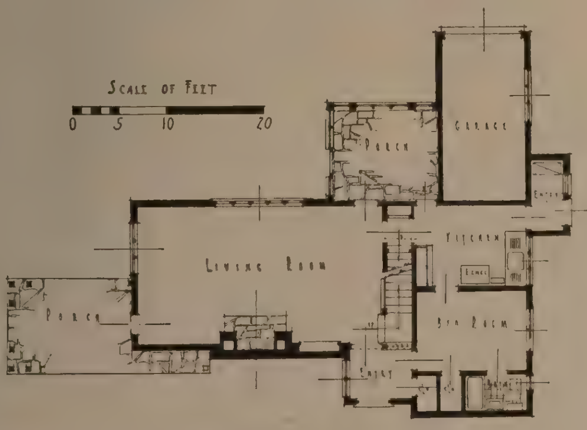


Living Room from Hall

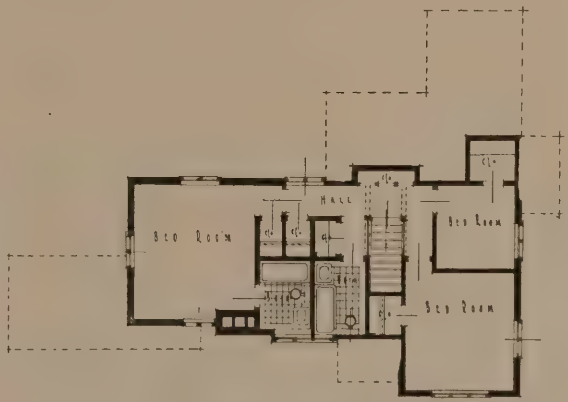


HOUSE OF ALEXANDER DISHER, ESQ., GREAT NECK, N. Y.
FRANK J. FORSTER, ARCHITECT

CHARACTERISTIC of all Mr. Forster's work, this comparatively small house has marked originality and charm of design. The tall, massive chimney is properly located to balance the high gable at the right end of the house. Wide, unbroken wall spaces give emphasis to the well placed windows and dormers. Bright striped awnings add a note of gaiety. The high main roof slopes down in a graceful curve over the entrance porch, successfully tying into the composition this feature of the design. Long, low roofs cover the living porch, the service entrance and the garage. Stucco, brick and half-timber are



First Floor



Second Floor

FORUM SPECIFICATION AND DATA SHEET—154

House of Alexander Disher, Esq., Great Neck, N. Y.

Frank J. Forster, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame.

EXTERIOR MATERIALS:
Stucco on frame and metal lath construction.

ROOF:
Red cedar shingles.

WINDOWS:
Metal casements.

FLOORS:
Random width, oak boards in living room; narrow oak flooring in rest of house.

HEATING:
Steam.

PLUMBING:
Wrought iron hot and cold water supplies

INTERIOR MILL WORK:
Oak.

INTERIOR WALL FINISH:
Sand-finished plaster.

INTERIOR DECORATIVE TREATMENT:
Stained woodwork; dark stained floors.

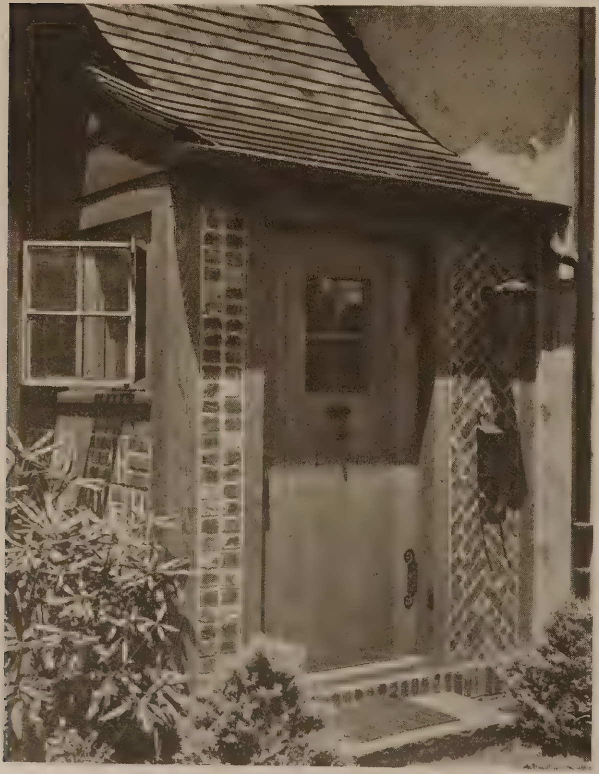
APPROXIMATE CUBIC FOOTAGE:
24,156.

COST PER CUBIC FOOT:
74 cents.

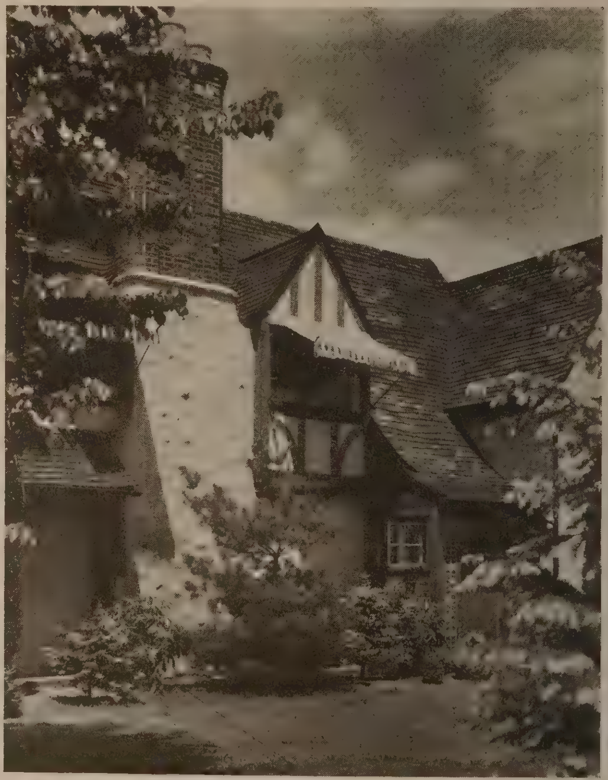
DATE OF COMPLETION:
May, 1924.

the materials used to produce the picturesque effect so evident in this country house. The treatment of the stucco, we are told by the architect, is more striking than was his intention. In the struggle for new and unusual effects in stucco so prevalent nowadays, it often happens that a feeling of restlessness, rather than a feeling of repose is unintentionally obtained.

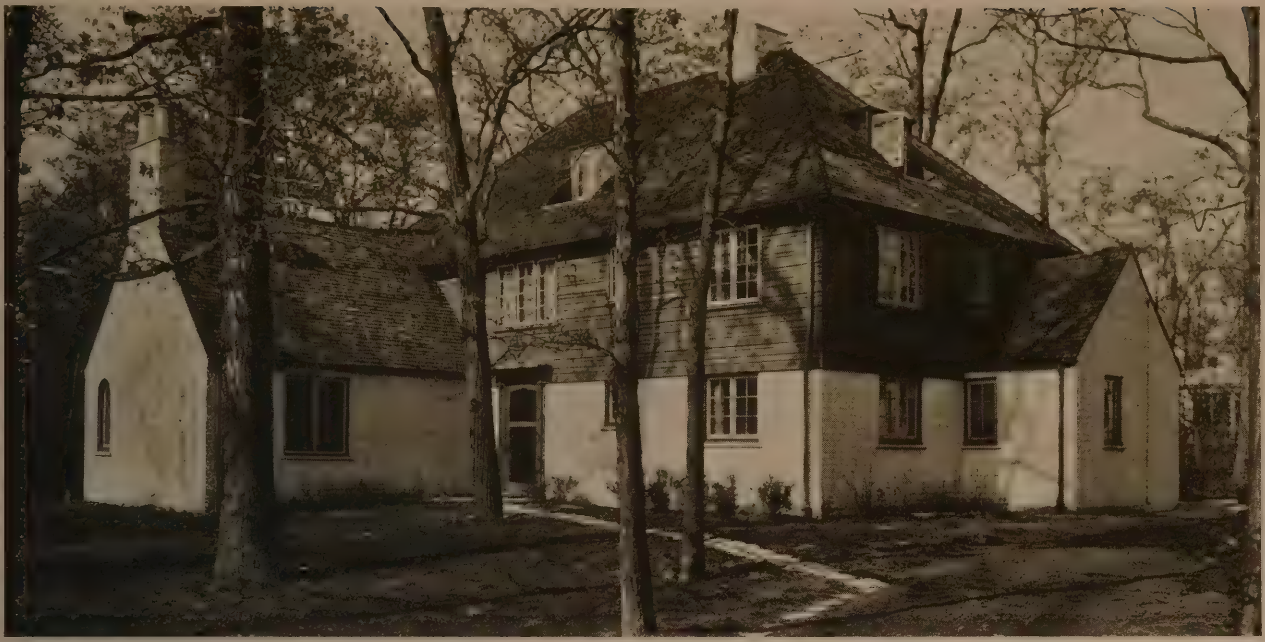
The plan shows study and care in the convenient arrangement and location of the several rooms. The enclosed entrance porch leads into the large living room on one side, and into a bedroom suite on the other. Covered porches open off two sides of the living room. One of these porches, which also connects with the kitchen, is glassed in, so that it may be used as a breakfast room. Direct access from the kitchen to the living room under the main stairway makes possible the use of this principal room for both living and dining purposes. The garage is incorporated as a part of the house, which is an especially desirable arrangement during the winter season. As the first floor bedroom is probably intended for the use of servants, the entire second floor is given up to three master bedrooms and two baths. The plan, like the elevations, shows that pleasing irregularity, which is always characteristic of the English cottage type of house and appropriate to it.



The Entrance



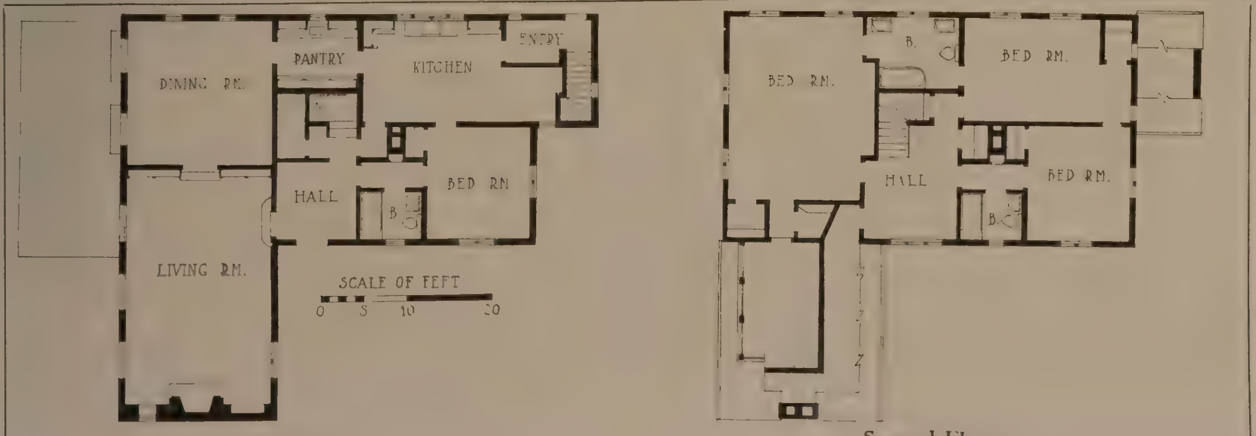
Principal Facade



HOUSE OF E. B. BARTLETT, ESQ., WINNETKA, ILL.
RUSSELL S. WOLCOTT, ARCHITECT

HERE is an interesting country house of moderate size showing a great deal of individuality in both elevation and plan. The use of white painted brick for the first story walls and gable ends affords excellent contrast with the stained siding of irregular widths used on the second story. The slope of the hip roof with its overhang is pleasing. The design as a whole would probably have been still more interesting had the architect been allowed to place the dormers out on the slope of the roof instead of recessing them in pocket-like apertures. Greater height and massiveness in the principal chimney of the house would undoubtedly have added still more distinction. Although severe in character, the house has a decidedly homelike quality. The one-story living room wing with its gable end chimney is tied into the house successfully and is sufficiently balanced by the projecting one-story service entrance and stairway at the opposite side of the house. The casement windows are well proportioned and logically located, giving symmetry and formality to an otherwise informal design. Placed low on the ground, with no basement in evidence, the house fits well into its wooded location not far from Lake Michigan.

The large living room, which is two steps below the level of the dining room and entrance hall, is open on three sides and connects by a large door with the dining room directly adjoining it. An open terrace is so located as to be accessible from both the living room and the dining room. A spacious pantry connects the dining room with an unusually large kitchen, off of which opens a bedroom with bath and passageway adjacent to the entrance hall. Back of the hall the enclosed main stairway is reached through an open arch. The second floor plan, like the first, is direct, practical and convenient. Over the living room at the rear of the house, so that it does not show as the front of the house is approached, is a large sleeping porch, which opens off of the principal bedroom. Two other bedrooms, two bathrooms and many closets make up the arrangement of the rest of the second floor. The main stairway continues on to the third floor, where two bedrooms and a bath are to be finished in the future.



First Floor

Second Floor

FORUM SPECIFICATION AND DATA SHEET—155

House of E. B. Bartlett, Esq., Winnetka, Ill.
Russell S. Wolcott, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame.

EXTERIOR MATERIALS:
Brick veneer and clapboards.

ROOF:
Shingles.

WINDOWS:
Wood casements.

FLOORS:
Oak.

HEATING:
Hot water.

ELECTRICAL EQUIPMENT:
Conduit.

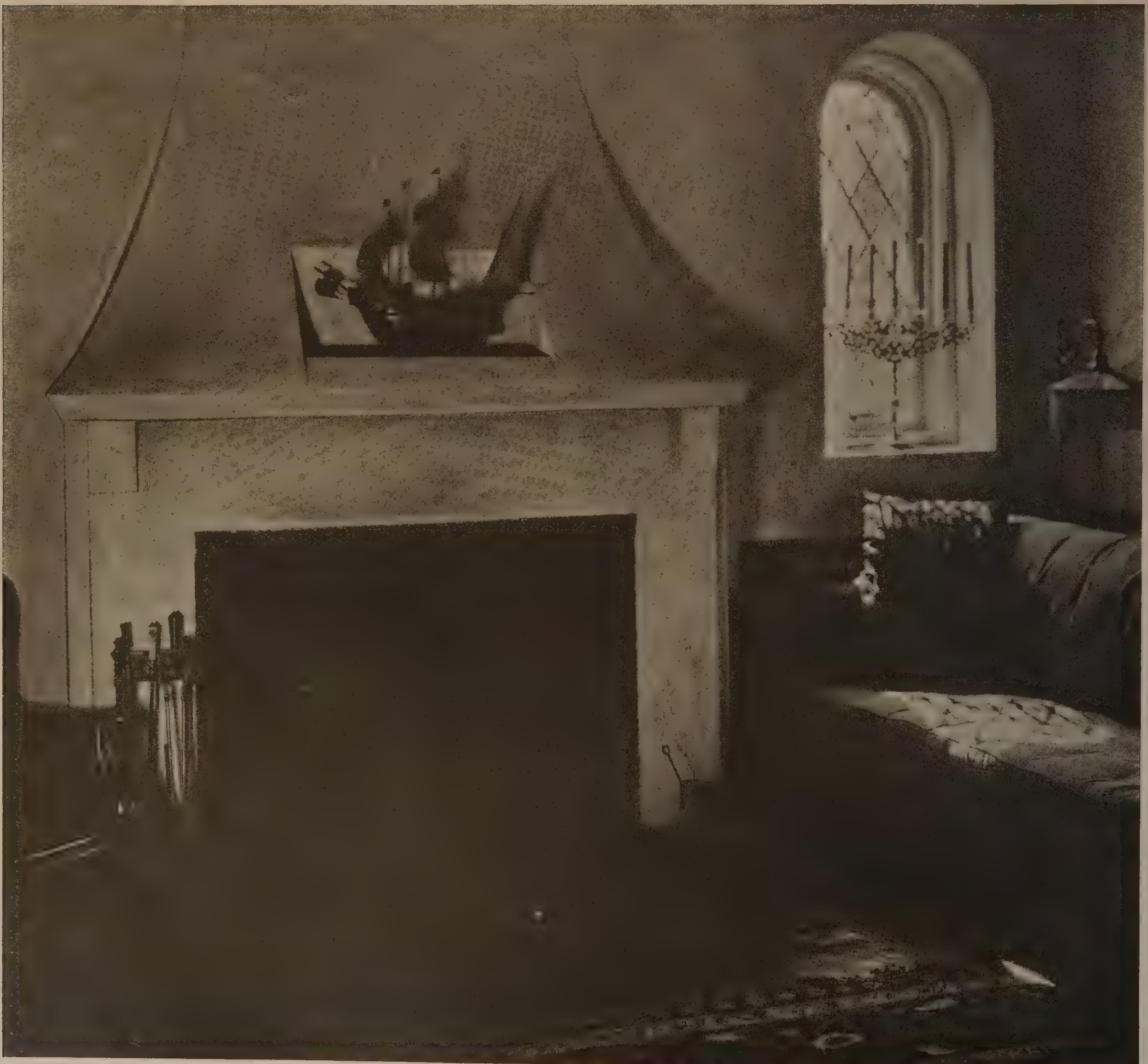
INTERIOR MILL WORK:
White wood.

INTERIOR WALL FINISH:
Sand-finished throughout.

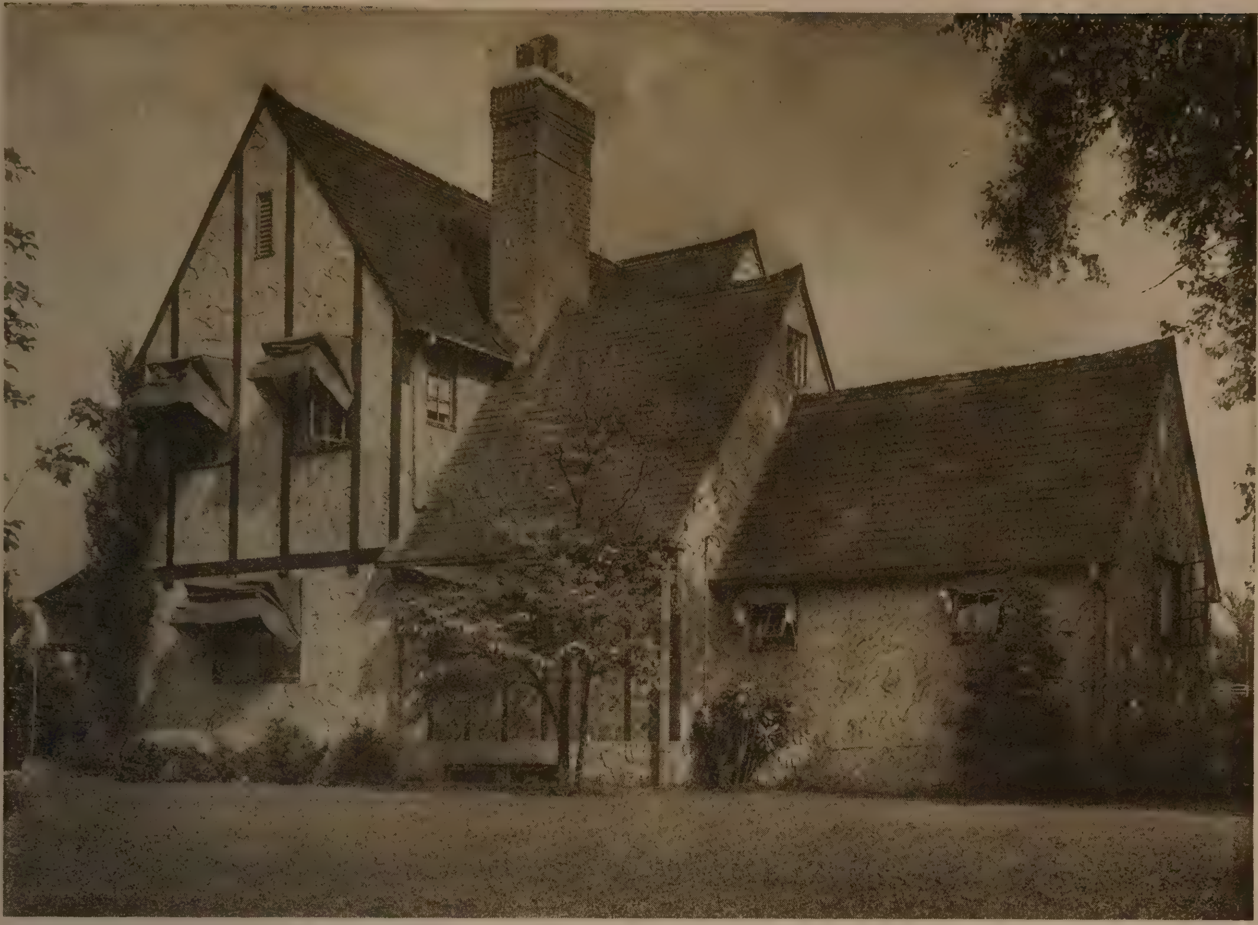
APPROXIMATE CUBIC FOOTAGE:
55,000.

COST PER CUBIC FOOT:
43 cents.

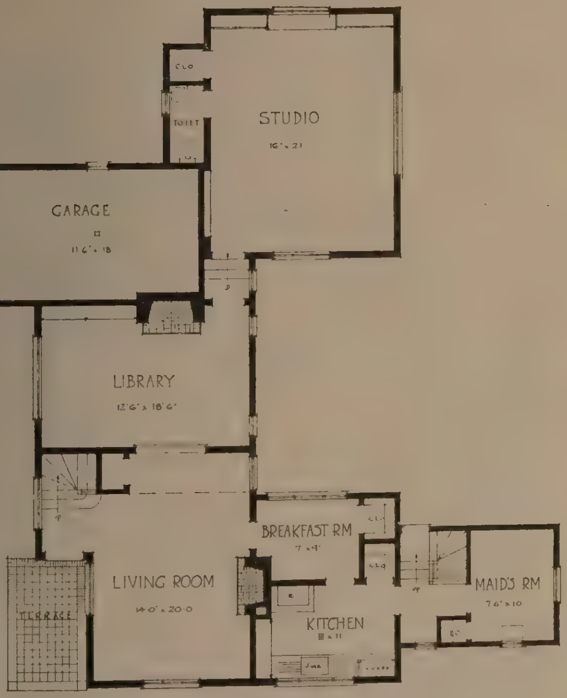
DATE OF COMPLETION:
July, 1924.



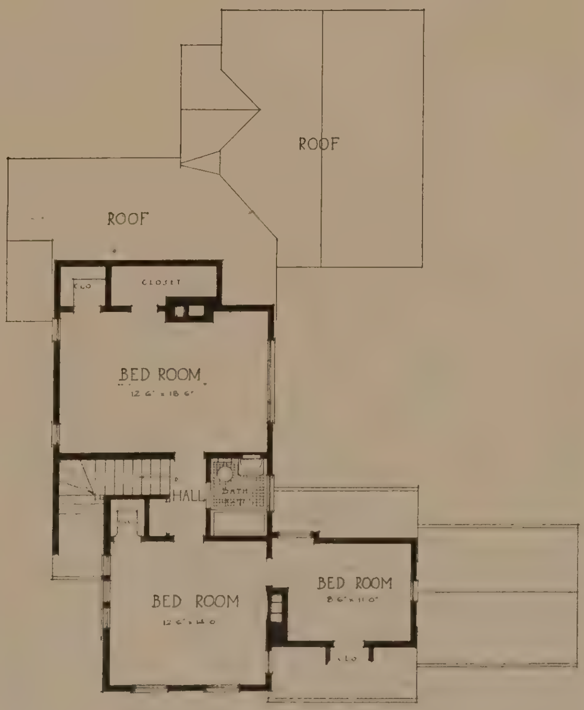
Living Room Fireplace, House of E. B. Bartlett, Esq.



HOUSE OF MRS. ELSA M. PERLEY, BRONXVILLE, N. Y.
CLIFFORD C. WENDEHACK, ARCHITECT



First Floor



Second Floor

FORUM SPECIFICATION AND DATA SHEET—156

House of Mrs. Elsa M. Perley, Bronxville, N. Y.

Clifford C. Wendehack, Architect

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Frame and stucco.

EXTERIOR MATERIALS:
Stucco and brick.

ROOF:
Shingles.

WINDOWS:
Steel sash.

FLOORS:
Oak.

HEATING:
Steam.

ELECTRICAL EQUIPMENT:
Lighting.

INTERIOR MILL WORK:
Cypress.

INTERIOR WALL FINISH:
Sand-finished plaster.

INTERIOR DECORATIVE TREATMENT:
Stain.

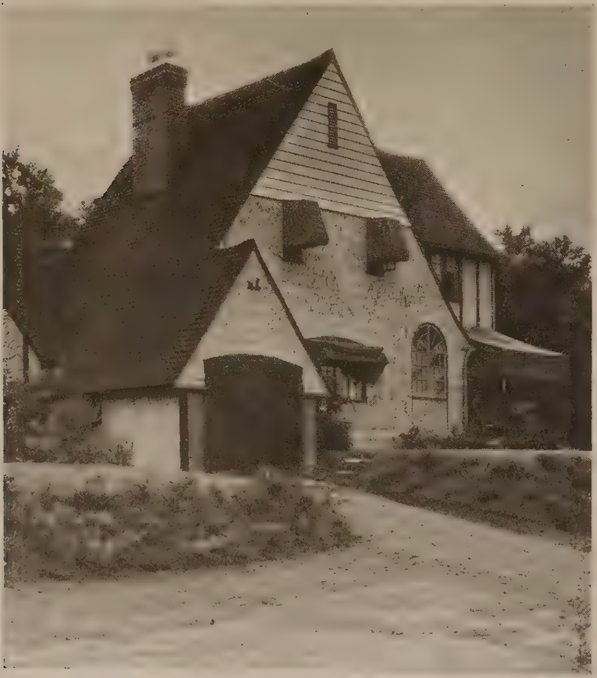
APPROXIMATE CUBIC FOOTAGE:
32,987.

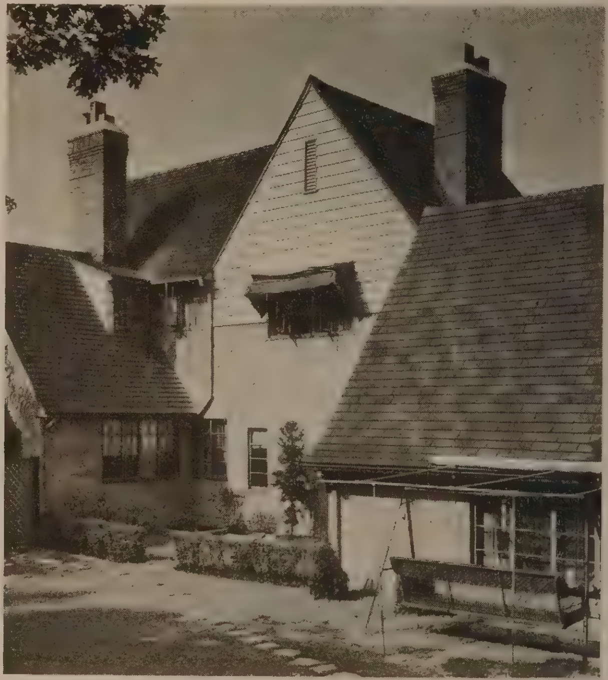
COST PER CUBIC FOOT:
51¼ cents.

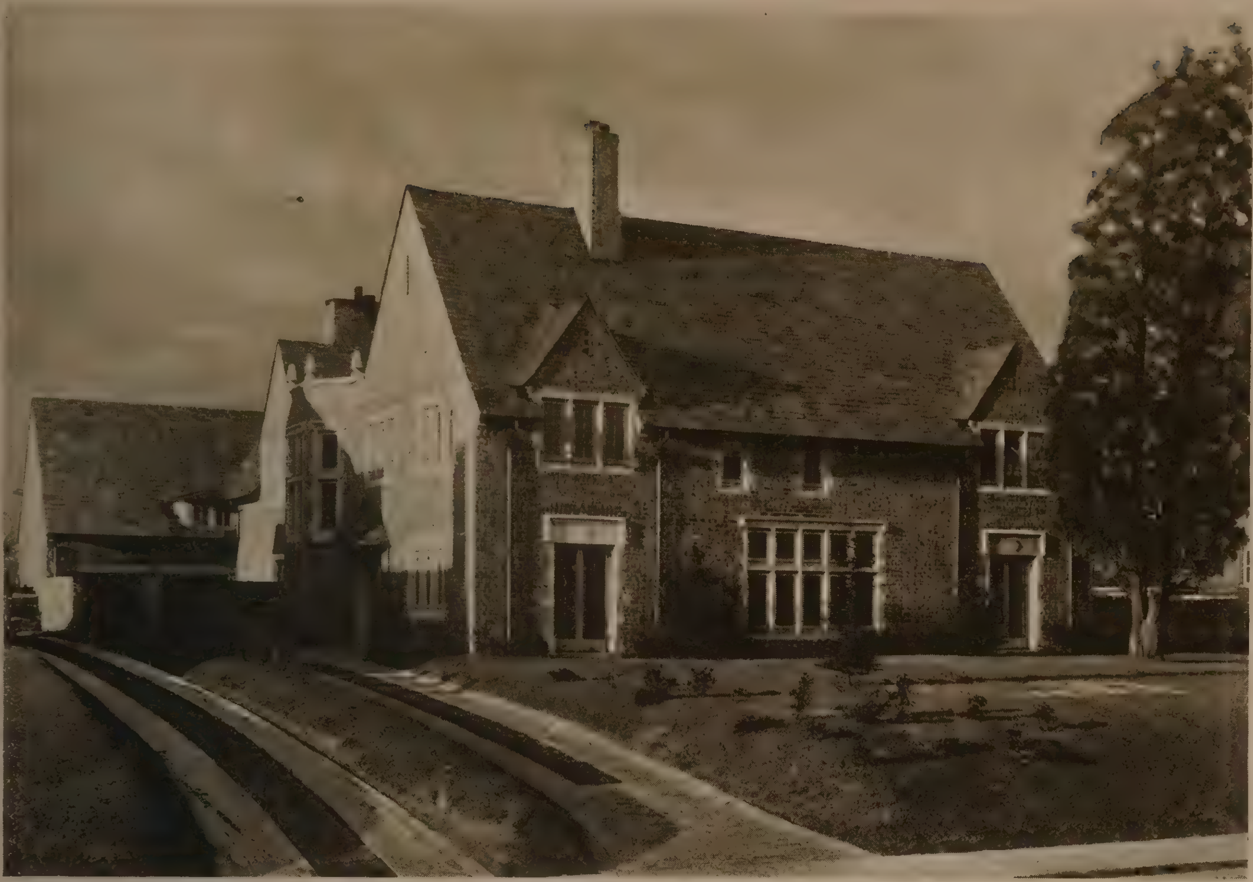
TIME OF COMPLETION:
Fall of 1924.

THE use of very rough stucco combined with high roof lines marks the design of this attractive Bronxville house. The great chimney breaks the roof at exactly the right point to give the needed balance and weight to this picturesque grouping of wall and roof planes. Half-timber patterns and brick are used to break the monotony of the roughcast stucco walls. The long vertical lines of the half-timber work at one gable end of the main roof add much to the high effect of this portion of the design.

As suggested by the exterior elevation, the plan is rambling. On the first floor the maid's room, kitchen and breakfast alcove occupy the right wing of the house. The living room, library, garage and studio occupy the rest of this floor. Grouped casement windows are used throughout in consistent following of the English cottage type. The projections of the various wings make possible the tiny garden court at the back. From the living room a corner staircase leads to the second floor, where under the main roof of the house are located three master bedrooms and a bath. An arched window indicates the location of the principal stairway. Various steep gables add interest to the elevations. Under one of these gables is located the garage. Wide siding used in the top of one of the main gables adds interest and variety. The somewhat exaggerated texture of the stucco may possibly detract slightly from the repose and restraint of this interesting, picturesque composition, but the very skillful grouping of the masses of the building creates an unusual degree of architectural character which affords ample compensation. Particularly to be admired are the long, unbroken expanses of sweeping roof surfaces.

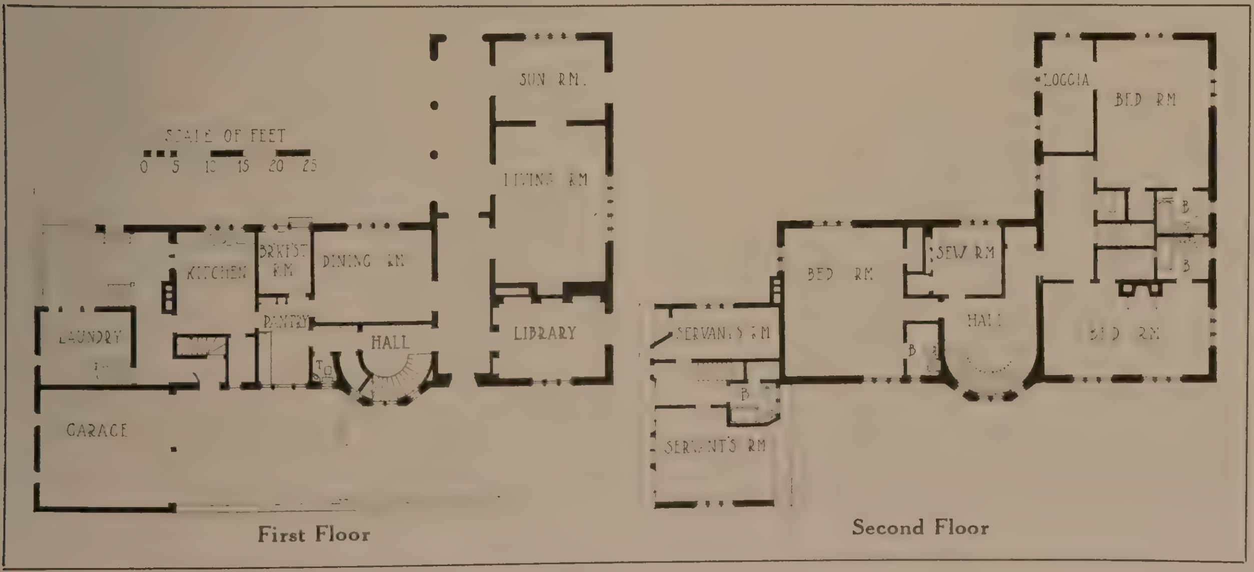

The Garage Wing


View from Garden



HOUSE OF CALVIN HOLMES, ESQ., KNOXVILLE, TENN.
BARBER & McMURRAY, ARCHITECTS

THIS could hardly be termed a "small" house, and yet so interesting and attractive is the English character of its design that it seems advisable to include it in this group. The style is distinctly English, as indicated by many mullioned and casement windows, low dormers, high roof lines and hooded entrance door. One glance at the drawings is sufficient to impress one with the care and thought taken in the development of the plan, which is clearly the work of a talented architect. The entrance hall, extending through the house to the loggia opening off the living porch and sun parlor; the secluded corner location of the library; the interesting semicircular stairway; and the spacious dining room with adjacent pantry and breakfast room, to say nothing of the commodious kitchen, laundry and service department, are all evidences of skillful planning. Not only in elevation but in plan as well, this house is



First Floor

Second Floor

FORUM SPECIFICATION AND DATA SHEET—157

House of Calvin Holmes, Esq., Knoxville, Tenn.

Barber & McMurray, Architects

OUTLINE SPECIFICATIONS

GENERAL TYPE OF CONSTRUCTION:
Brick 12-inch walls, with 4-inch air space between outer and inner 4-inch walls.

EXTERIOR MATERIALS:
Culled paving brick and cast stone trim.

ROOF:
Slate.

FLOORS:
Oak and slate flags.

HEATING:
Steam.

PLUMBING:
Enameled fixtures.

ELECTRICAL EQUIPMENT:
Lighting.

INTERIOR MILL WORK:
Black walnut.

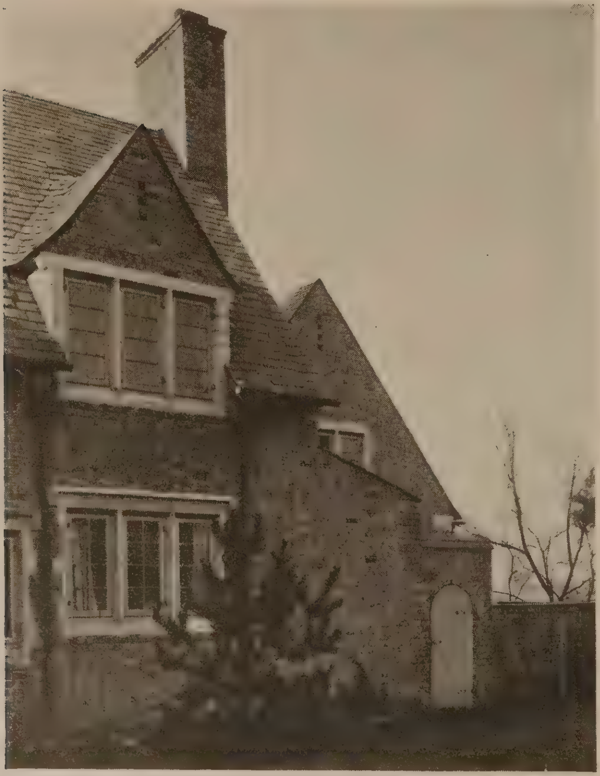
INTERIOR WALL FINISH:
Sand-finished plaster.

INTERIOR DECORATIVE TREATMENT:
Curved stairway of pre-cast concrete with wrought iron rail.

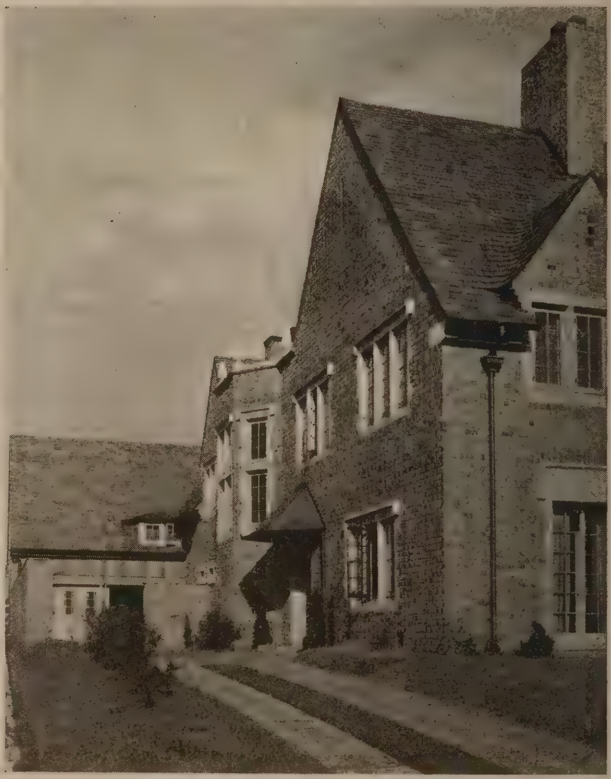
COST PER CUBIC FOOT:
46 cents.

one to be carefully studied, since much may be learned from the ordered arrangement of the rooms.

The plan of the second floor, like that of the first, shows splendid allotment of space, there being three unusually large bedrooms with adjoining baths and ample closets. The stair hall, which occupies the center of the house, is shut off by doors and archways from the bedroom suites. A wide corridor connects the stair hall with the two principal bedrooms in the body of the house. On the second floor of the ell are located two servants' bedrooms and bath. The size of the master portion of the house would seem to indicate that more than three servants would be necessary to care for it, but available space for the housing of more than three has not been provided. The brick walls of the house possess unusually attractive texture and character, contrasting well with the severe stone window and door trim. The principal chimney is well placed on the ridge of the main roof, adding much to the balance of the composition. Garage court and drying yard are well tied into the main design by the high walls which enclose them. Altogether, this is a most successful example of a carefully planned home carried out in a typically modern version of English domestic architecture, appropriate almost anywhere in America.



The House from the Rear

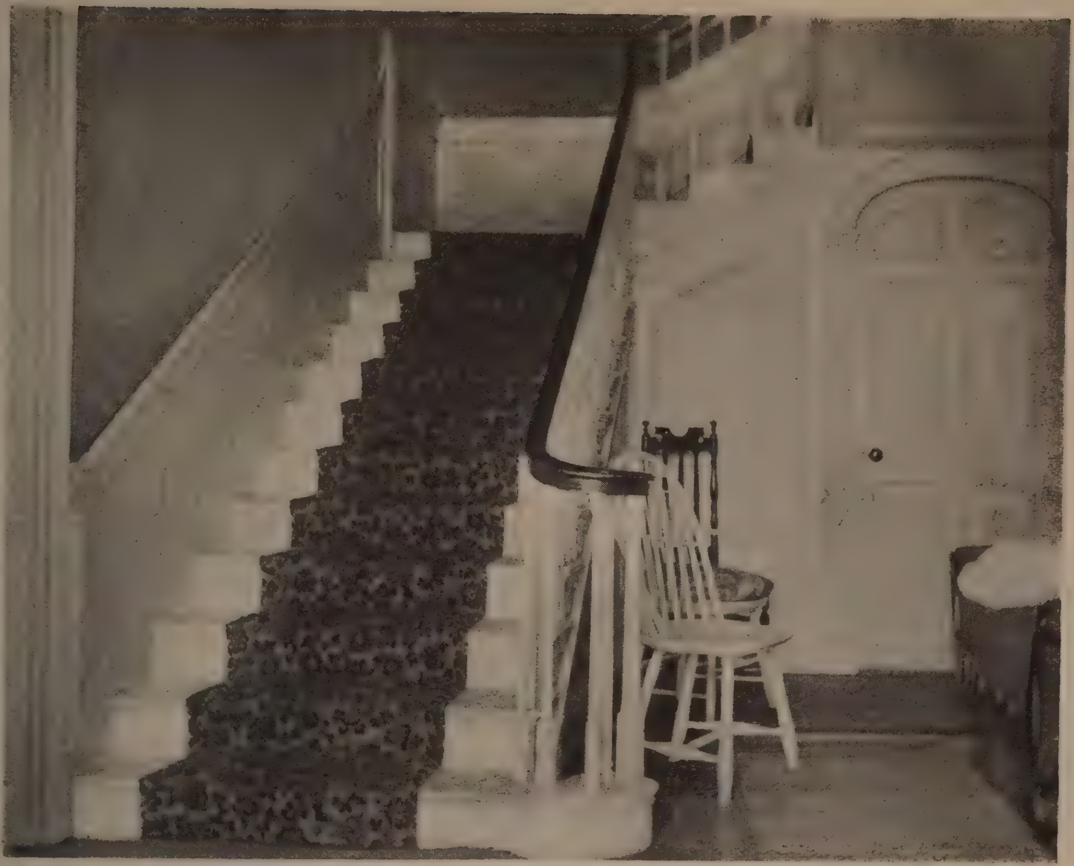


Driveway to Entrance

EARLY AMERICAN DETAILS

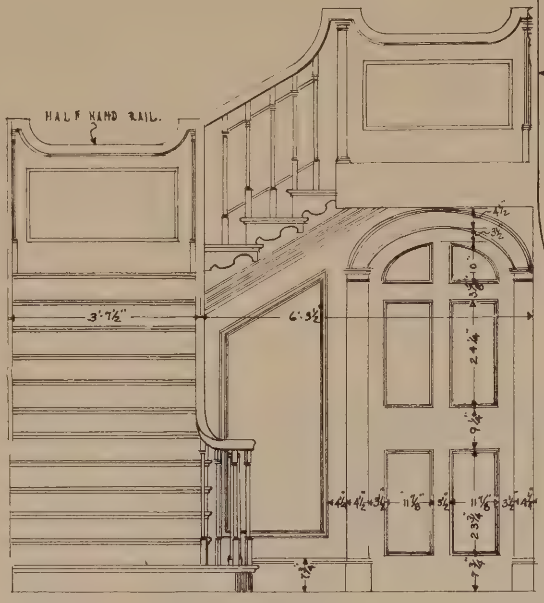
MEASURED AND DRAWN BY

A. J. HARRIMAN

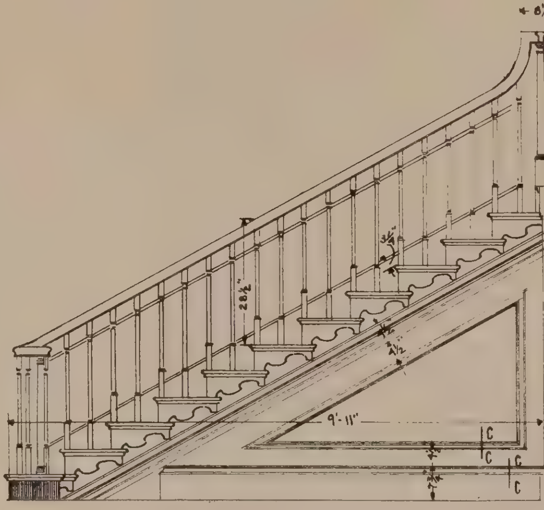


STAIRWAY OF THE LITTLEFIELD HOUSE, KENNEBUNK, ME.

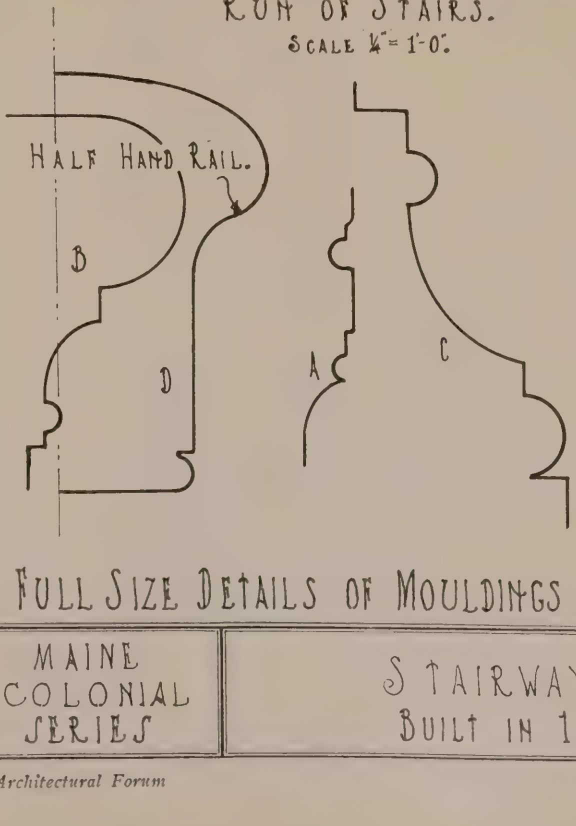
THE early carpenter-architects of Maine made up in the grace and delicacy of their designing for the extreme simplicity which the times and circumstances made necessary. This stairway and the door under it from the Littlefield house at Kennebunk, built in 1789, prove that considerable distinction in the way of design is attainable by use of very simple means. The door beneath the stairway, its elliptically shaped top supported upon pilasters, the spirited scroll of the stairway's skirt board, the ram's horn and goose neck of the handrail, and the half-handrail on the wall side of the stairs are all examples of excellent design. The newel is a copy of a Tuscan column, though more slender and having an Attic base.



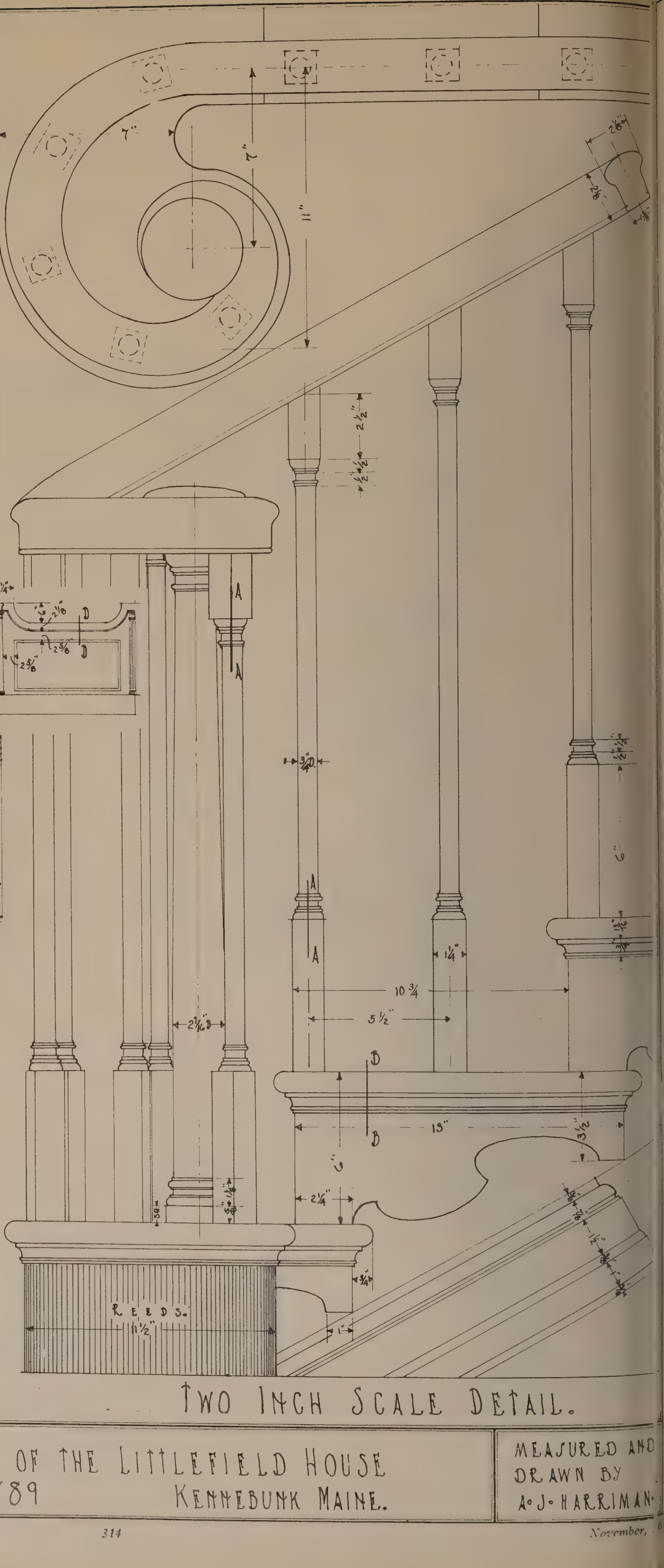
ELEVATION OF STAIRS.



RUN OF STAIRS.
SCALE ¼" = 1'-0".



FULL SIZE DETAILS OF MOULDINGS

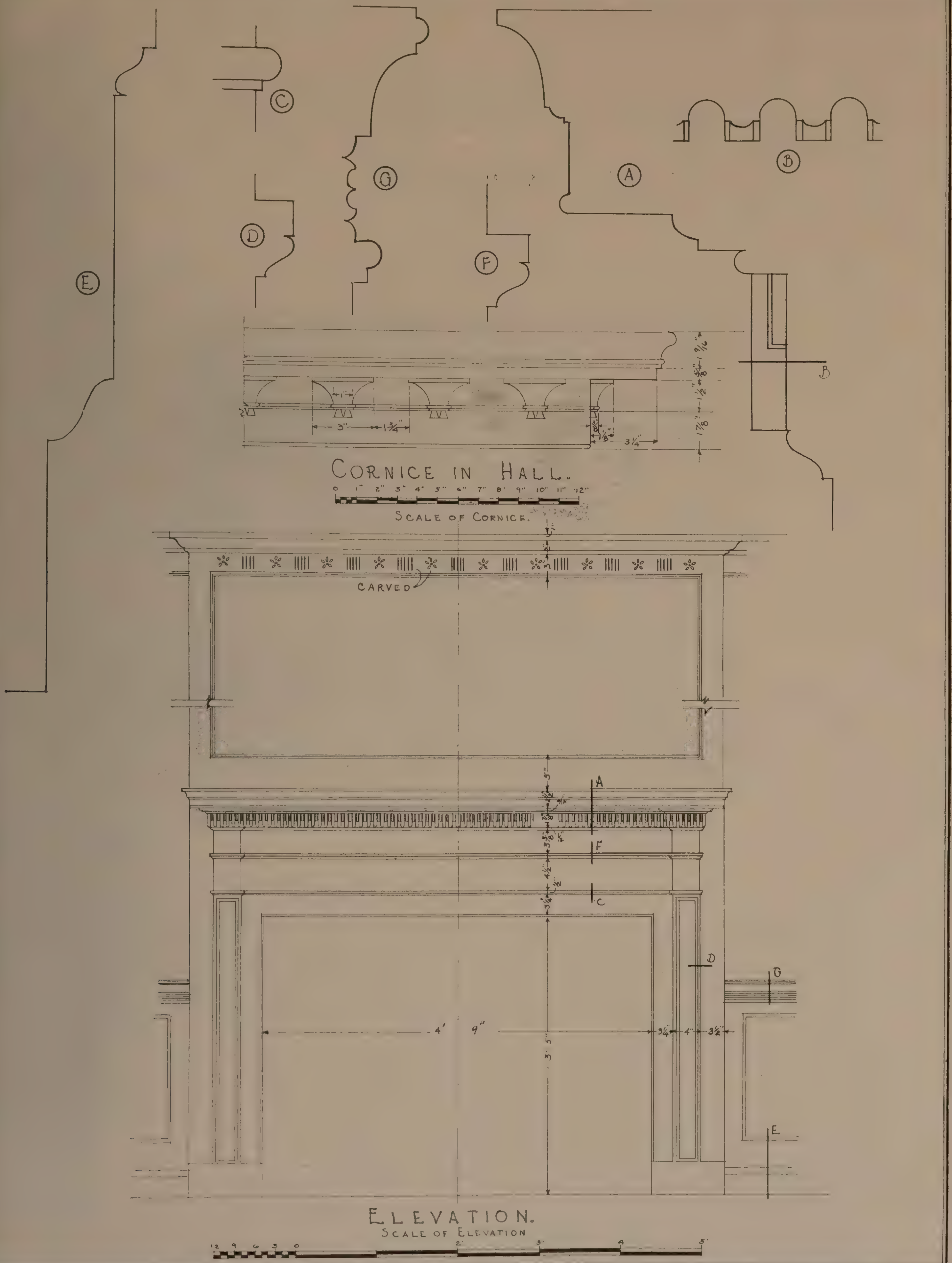


TWO INCH SCALE DETAIL.

MAINE
COLONIAL
SERIES

STAIRWAY OF THE LITTLEFIELD HOUSE
BUILT IN 1789 KENNEBUNK MAINE.

MEASURED AND
DRAWN BY
A. J. HARRIMAN.



CORNICE IN HALL.

ELEVATION.

MAINE
COLONIAL
SERIES

MANTEL IN THE JOHN HENRY HOUSE

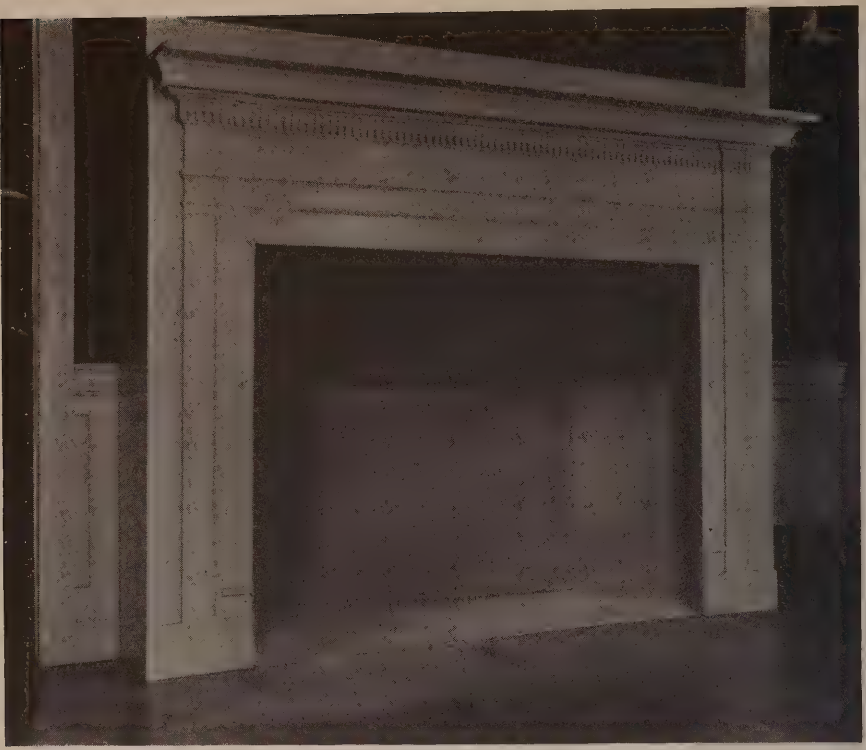
BUILT IN 1790 BATH, ME.

MEASURED AND
DRAWN BY
A. J. HARRIMAN.

EARLY AMERICAN DETAILS

MEASURED AND DRAWN BY

A. J. HARRIMAN



MANTEL OF THE JOHN HENRY HOUSE, BATH, ME.

THE historic New England towns along or near the seacoast are rich in old houses, relics for the most part of palmy days near the close of the eigtheenth or early in the nineteenth century. Such is the house at Bath, Me., built by John Henry, an eminent ship builder, in 1790. The craze of subsequent owners for "modernizing" has wrought considerable havoc with the gracefully designed woodwork, in which the original owner no doubt took great pride. All that still remains worthy of note are the cornice in the hall and the mantel of the living room. The changes, have not involved the spoiling of the carefully designed pilasters or the beautiful dentil course which supports the narrow mantel itself. The hall cornice, with its delicacy and simplicity of design, seems to have escaped intact.

DECORATION & FURNITURE

Furniture with Architecture

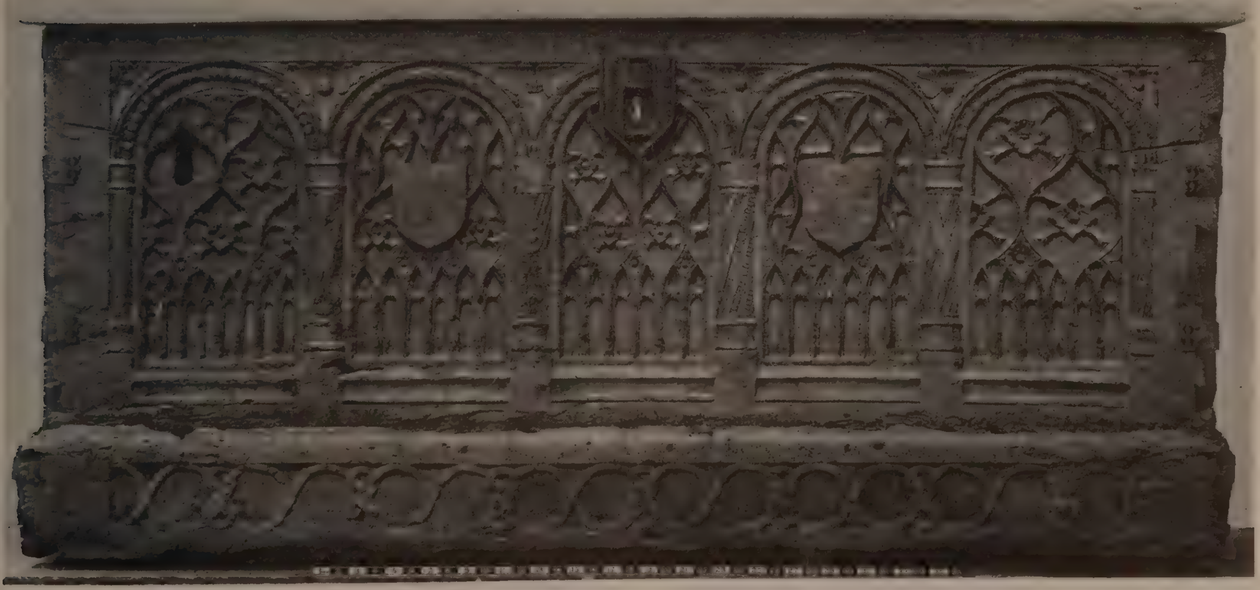
By ROGER WEARNE RAMSDELL and HAROLD DONALDSON EBERLEIN

All Illustrations by Courtesy of Victoria and Albert Museum

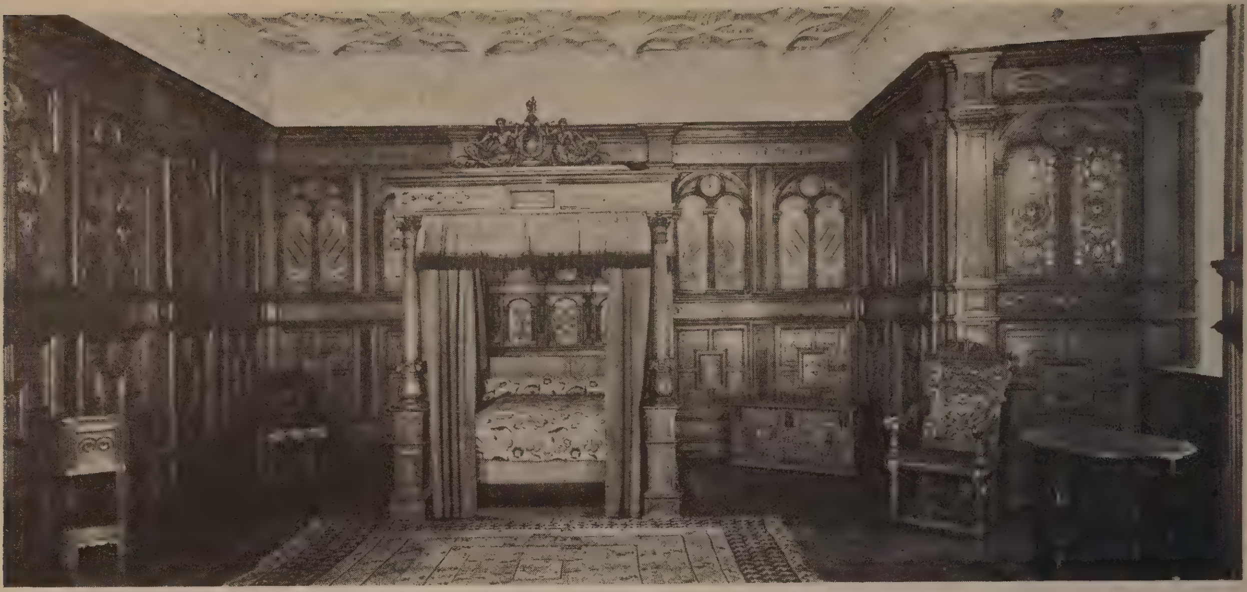
FURNITURE is the indispensable complement of architecture. When the furniture of an interior is right, the value of the architecture is enhanced by it; when it is wrong, the effect of the architecture is marred. As conscious of this truth as architects ought to be, and as keenly conscious of it as many of them unquestionably are,—and to the great advantage of their work,—there are many more who ignore the relationship, in fact if not in principle, to the detriment of their own labor and the misfortune of their clients. It is not always either necessary or advisable, perhaps, for the architect to enter into furnishing minutiæ to the same extent as the Adam brothers often did, but there is a happy medium between an overly meticulous solicitude and the seeming indifference of those who conscientiously finish structures and then let the furnishings shift for themselves, often spoiling the work.

The tender mercies of clients in this particular are not to be too much trusted, even when the clients themselves are evidently interested and actuated by the best possible intent; neither is too much confidence to be reposed in the knowledge and judgment of the interior decorator until the architect is fully assured of entire competence in that quarter. While there are many interior decorators who are thoroughly able to undertake and execute successfully any commission that may be entrusted to them,—many, indeed, who can and often do most acceptably carry out certain architectural reconstructions in rooms as a preliminary to the further stages of their tasks,—there are too many who are altogether obsessed by passing fads, too many whose chief qualification consists in a certain flair for amiable arrangements in some one mode for which they have a fancy, along with a facility in disposing upholstery fabrics. Some, too, are merely drapers and purveyors of pretty knickknacks and not interior decorators at all, and it is unfortunate that they should masquerade under the name of interior decorator. It is unfair to those who have devoted time, study and capacity to the mastery of an exacting profession that demands all the skill, culture and knowledge that they can put into it. This may seem a severe arraignment of a considerable number of those who assume the responsibility of appointing interiors, but that the arraignment is deserved is entirely true.

In the majority of cases the architect has neither the time nor the intimate knowledge of the hundred and one petty details that enter into consideration to undertake the complete execution of a furnishing scheme. The ideal arrangement, therefore, is one of amicable and helpful collaboration between the architect and a capable interior decorator. And the really capable interior decorator, man or woman as the case may be, can often give constructive criti-

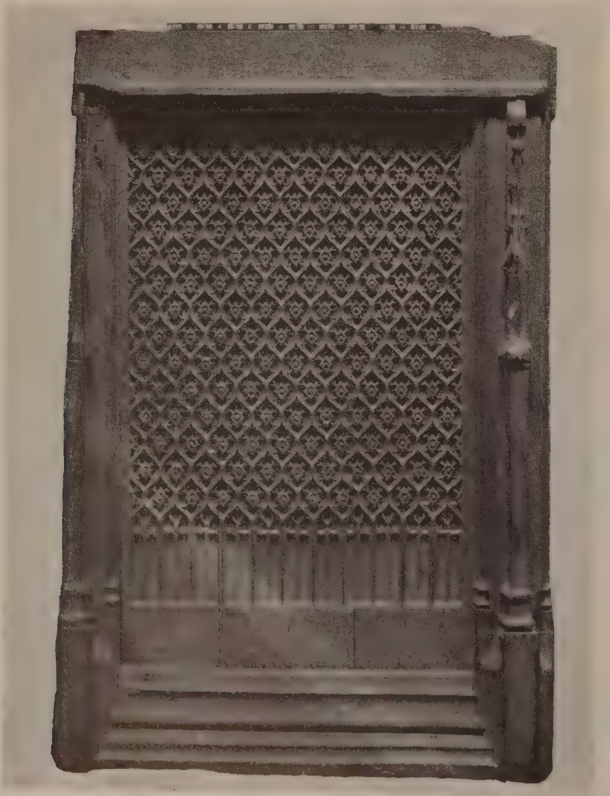


Walnut Chest, Northern France, about 1500

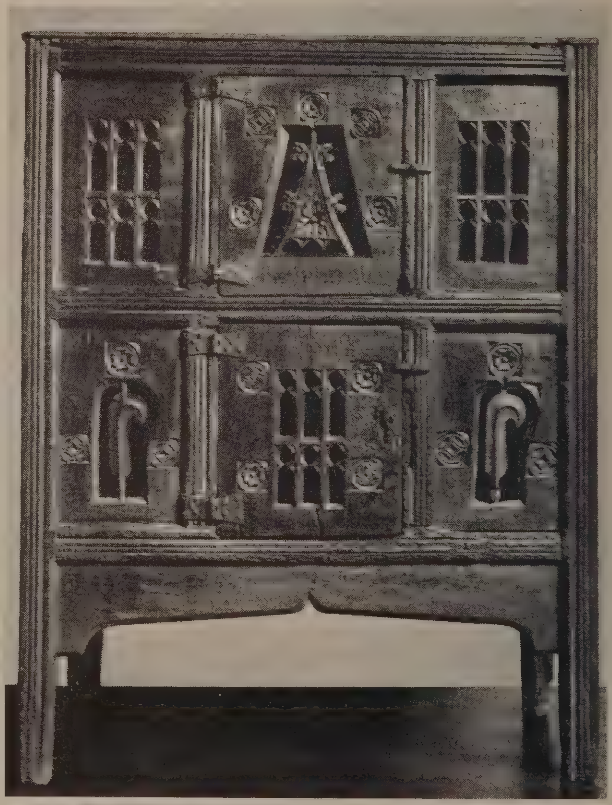


Inlaid Room, Sizergh Castle, Westmoreland, about 1575

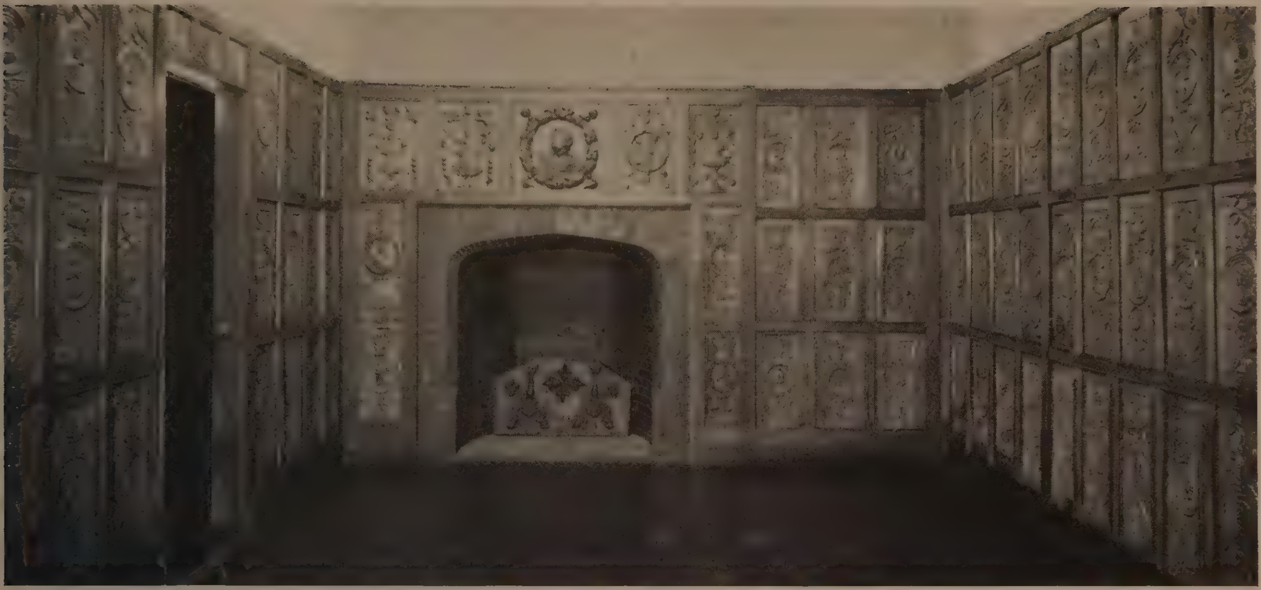
cisms and make suggestions that the architect will do well to heed. From a harmonious relation of this sort the best results may confidently be expected. In view of the fact that the majority of clients need counsel and guidance in the matter of furnishing and arrangement, and also in view of the fact that the architect is vitally interested in securing the collaboration of an interior decorator who is properly qualified and in sympathy with the commission, it is advisable that he maintain at least an advisory attitude and oversight of what is going on. In order to take such an attitude, however, it is necessary for the architect to know enough to give direction to the course of development in the rooms he has designed. Obtaining proper furnishing is a matter of principle; it is not a matter of slavishly observing a code of hard and fast rules. There is unlimited flexibility of application so long as the spirit of the underlying principles is faithfully adhered to. To arrive at these fundamental principles and truths in respect of furniture and furnishing, in the most intelligent way, it is well to go back to beginnings and inquire just what is the nature of each of the elements and factors with which we are likely to be found dealing.



Back of Late 15th Century French Oak Seat

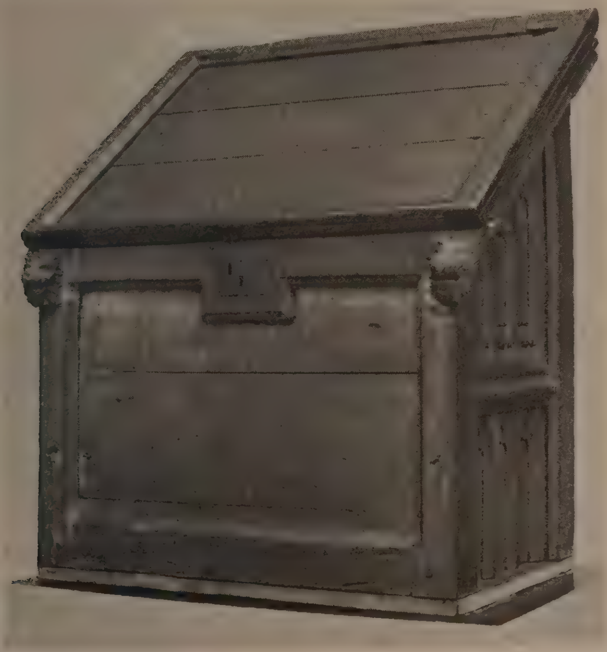


Oak Cupboard from Burwarton, Salop, about 1500

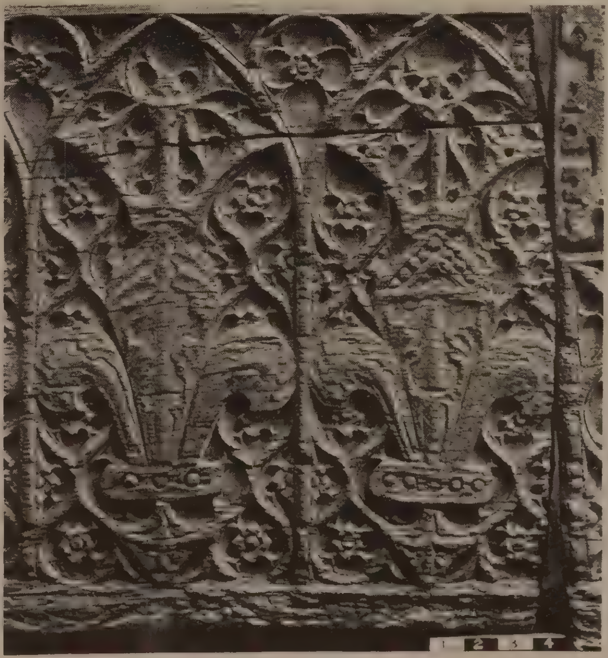


Paneled Room from House at Waltham Abbey, about 1535

In the first place, what is furniture? It is not enough to say that furniture is detached architecture, or that it began as architecture, and then gradually became detached like a barnacle loosened from its bed, and finally evolved to a fully mobile and independent stage as we have it at present. While there is a large measure of truth in such a statement of the genesis of furniture, it is not the entire truth. There is something more to be said, and without taking due account of it we should have a one-sided and very imperfect view of the evolution of modern furniture. As we know it, furniture comes of a dual origin. Much of it did, indeed, begin as part and parcel of architecture. Fixed at first, by gradual stages, it became detached and movable although cumbersome, still retaining purely architectural structure and ornament. Eventually it became lighter in structure and more mobile, and its lines and embellishment were less obviously inherited from its architectural parent, although the architectural principle was never lost sight of nor set aside. Even in such extreme perversions as arose from the Austrian "Secession" movement and "Art Nouveau," or in the still later freaks shown at last year's modernist exhibition in Paris, some vestige of architectural descent can still be dimly traced. On the other hand, there was an origin that was not architectural. Ever since the earliest dawn of civilization, man has needed something to put things in, something to hang things on, and something to sit upon, the indispensable implements and accessories of his daily work. Necessity was the mother of invention, and hence, before he



15th Century English Oak Reading Desk



Detail, 15th Century Walnut Chest

was capable of anything more than the most rudimentary achievements in architecture, he contrived a number of boxes, racks, stools and primitive tables to meet his simple but compelling requirements. From these, in due course of time, there developed a great diversity of movable seats, tables, chests and boxes not having any particular relation to architecture. Mobility rather than fixity was the essential quality of such furniture. Articles of this description and derivation, in their turn, have contributed no small share to the ultimate sum total of mobiliary equipment. Furniture then, in the aggregate, is sprung from the union of these two primitive types,—architectural and non-architectural. In the course of thousands of years the two parent strains have become so blended and closely assimilated that the distinction is not always readily apparent; but it is there if we choose to look for it, and unless we take account of its existence we shall not have a perfectly clear understanding of furniture or the nature of the relative furnishing values which its use involves.

Early 16th Century English Oak Table

The materials of which furniture has been made from the earliest times are stone, wood and metal. The non-architectural furniture of primitive days was fashioned from wood. Later, as the arts developed, both wood and metal were used, with the occasional employment of ivory where great splendor was aimed at. The wood, metal and ivory furniture of the ancient Egyptians, Assyrians, Greeks and Romans achieved the utmost elegance and splendor. The bronze furniture in the museum at Naples, recovered from the ruins of Herculaneum and Pompeii, bears eloquent witness to the consummate art and skill brought to bear in its fashioning. But it is not with the non-architectural derivation of furniture that we are concerned; we must first inquire into the architectural derivation, which is important.

To go no further back in its history, stone furniture as part and parcel of architectural composition was employed by the Romans in the form of seats or benches, niches within which were placed ornaments or articles of utility put there for convenience and safe-keeping, and tables of various sorts. Architectural furniture of this sort was used both indoors and out. The tradition never died out in Italy, and during the Renaissance the *lavabo* built into the wall was an additional feature of combined utility and beauty. In the Gothic work of both France and England stone seats and niches of considerable variety were to be found not only in churches and monasteries but in castles as well. Wood, however, was a far more adaptable medium, and it is with the use of wood that the development of movable furniture begins. In churches, abbeys and monastic houses, besides the choir stalls there were great presses or cupboards for books and vestments, fixed benches, and aumbries or small cupboards for vessels and food In monastic libraries there were writing desks and lecterns, built in as part of the fixed equipment, as well as presses for manuscripts. In castles there were the canopied seats of state and great bedsteads of permanent construction, built in as part of the architectural equipment. The bedsteads of the Norman peasants, built into the paneling of their houses, furnish an instance of the survival of ancient Gothic tradition.

Then came a change. The smaller items of attached and stationary furniture, and after them the larger, by degrees became disengaged or detached from their moorings and could be moved from place to place if occasion arose. In addition, by way of stimulus to the movement, there came use of the chests that had been movable from the beginning of history. But the detached furnishings were plainly regarded by their makers and owners as items of movable architecture, for in structure and ornament they were identical with the fixed backgrounds from which they had just emerged. No better proof of this can be desired than that afforded by these illustrations, which show the analogy. The "inlaid room" from Sizergh Castle, constructed as we see it illustrated here about 1575, has its great bedstead identical in material and pattern with the paneling, while the other pieces of furniture, few in number and heavy in scale, bear a strong architectural family resemblance. For contrast and color, there were the rich hangings, the plaster enrichment of the ceiling, and the leaded glazing of the windows with spots of bright-hued glass in the heraldic blazoning. The appointment of the room illustrates a contemporary ideal and embodies a principle.

Apart from the fixed embellishment of the paneling, the plaster and the glazing, it is plainly the comparatively few and important pieces, closely related to the fixed architectural setting, that make the room and give it its character. They constitute what might be called the strategic points of furnishing. Whatever other lesser elements might be introduced, they could not materially either alter or spoil the fundamental excellence of the room. The principle holds good whether it be in a room of the general character here shown or a room of totally different derivation in the matter of style. Coherence of line and harmony of material,—harmony of contrast or harmony of analogy,—between the fixed background and the chief articles of furniture that dominate the situation may be depended upon to produce sound and satisfactory results. So long as the architect is assured of these factors, his mind may be at ease.

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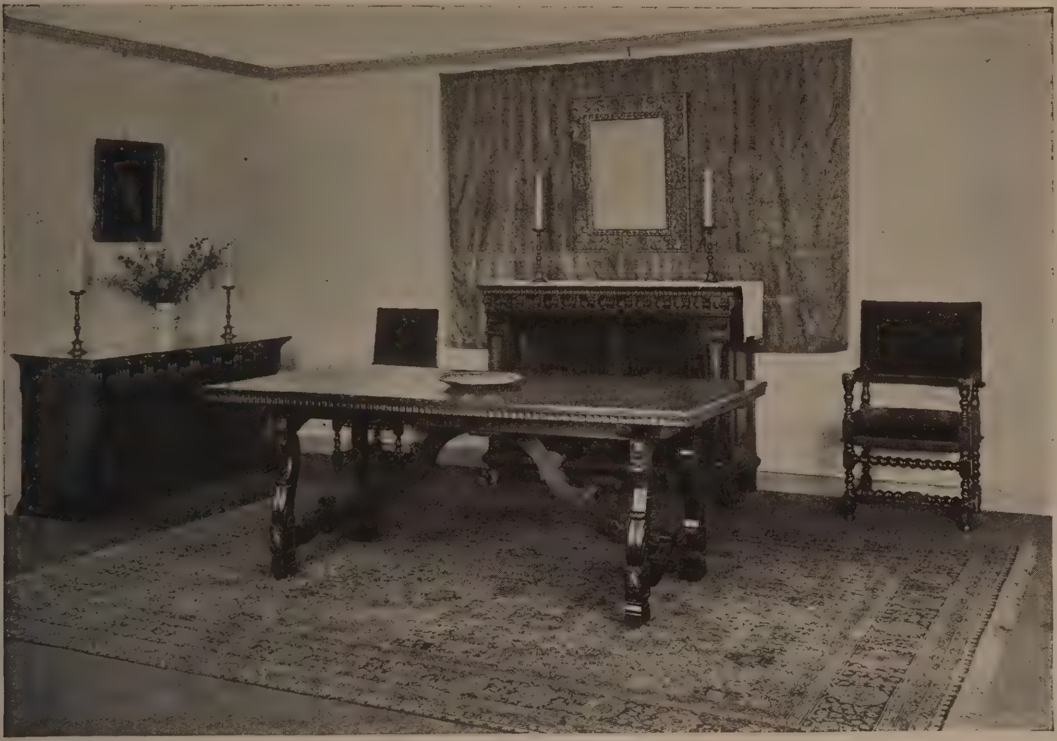

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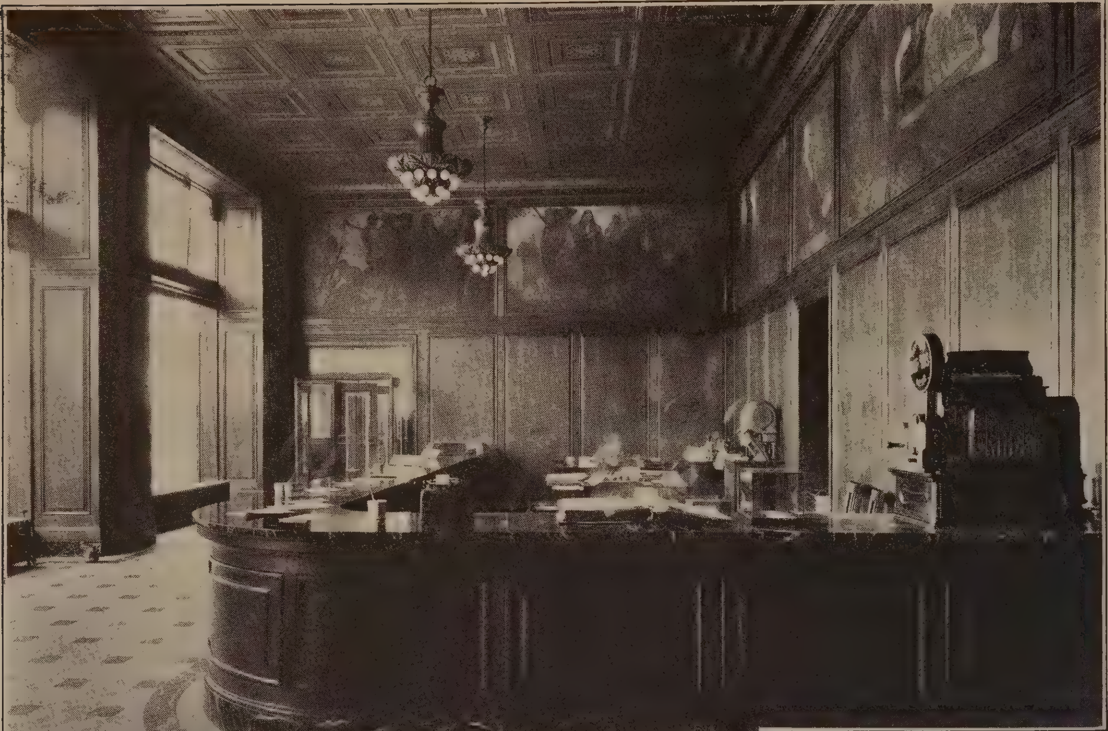
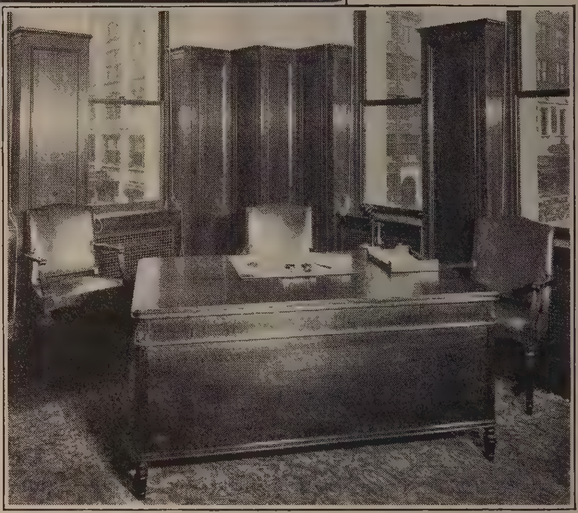


Public Relations Room, Detroit Free Press.
Albert Kahn, Inc., Architect, Detroit.
Walnut Woodwork by Rob't Mitchell Furniture Co., Cincinnati.

Managing Director's Office



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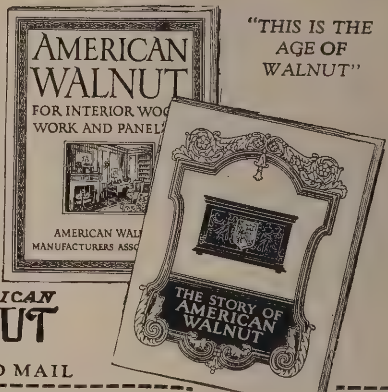

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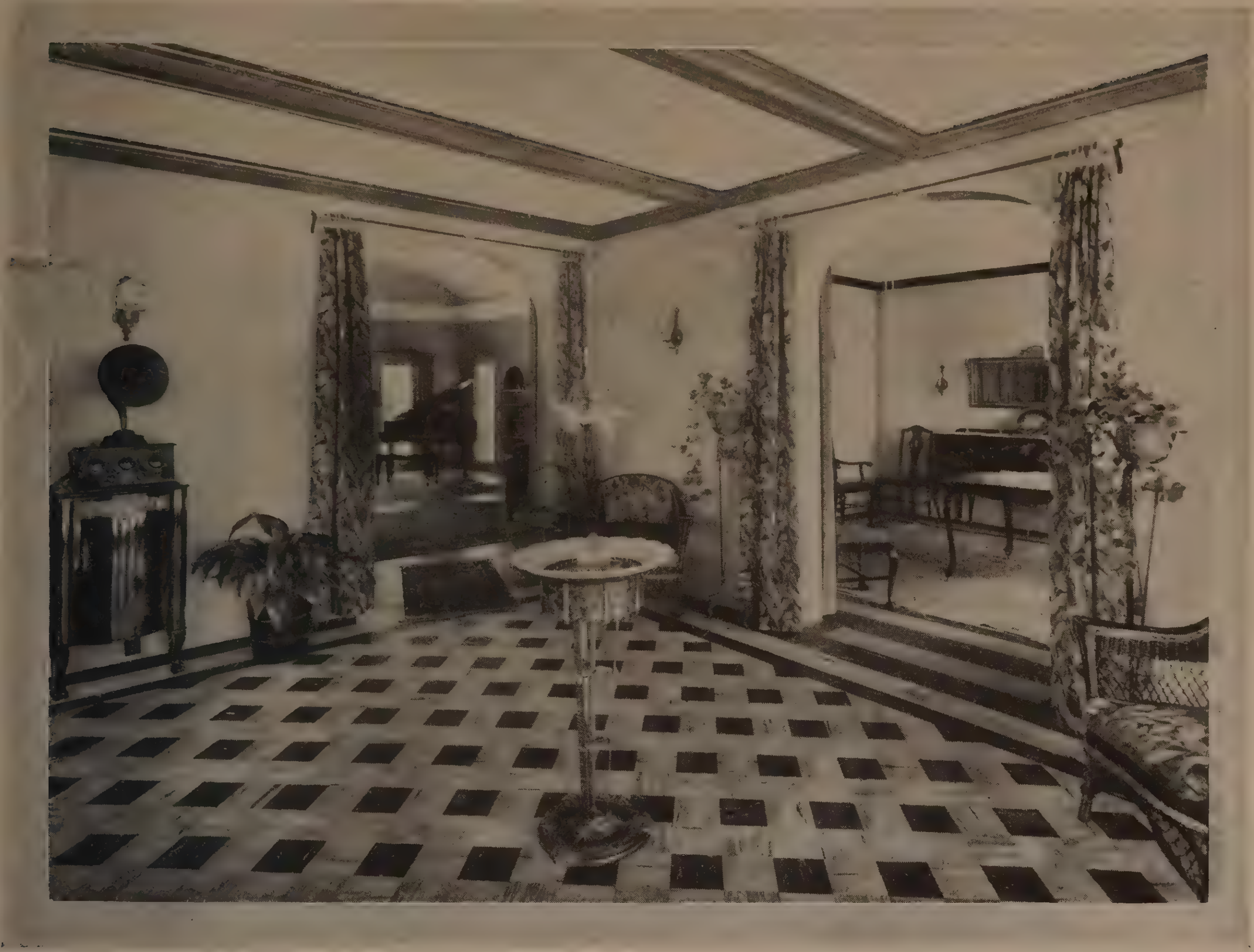

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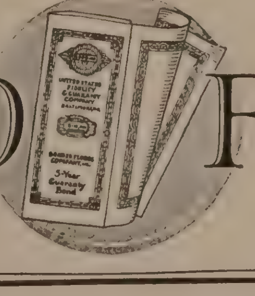

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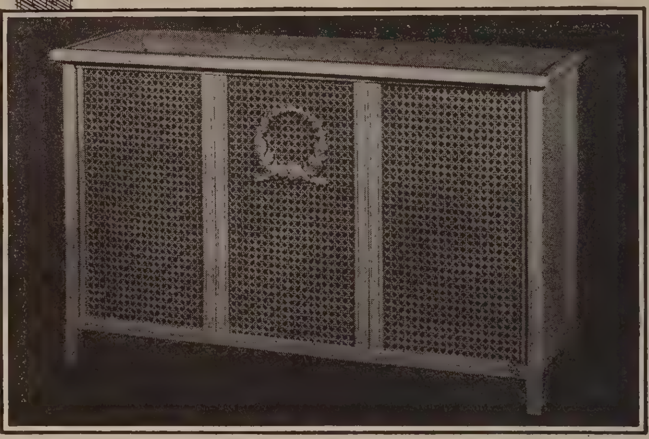

The *Villa*. The cabinet illustrated is finished in old ivory and has Steelcane Grilles. The *Villa* with slight variations was selected for Ritz Tower.

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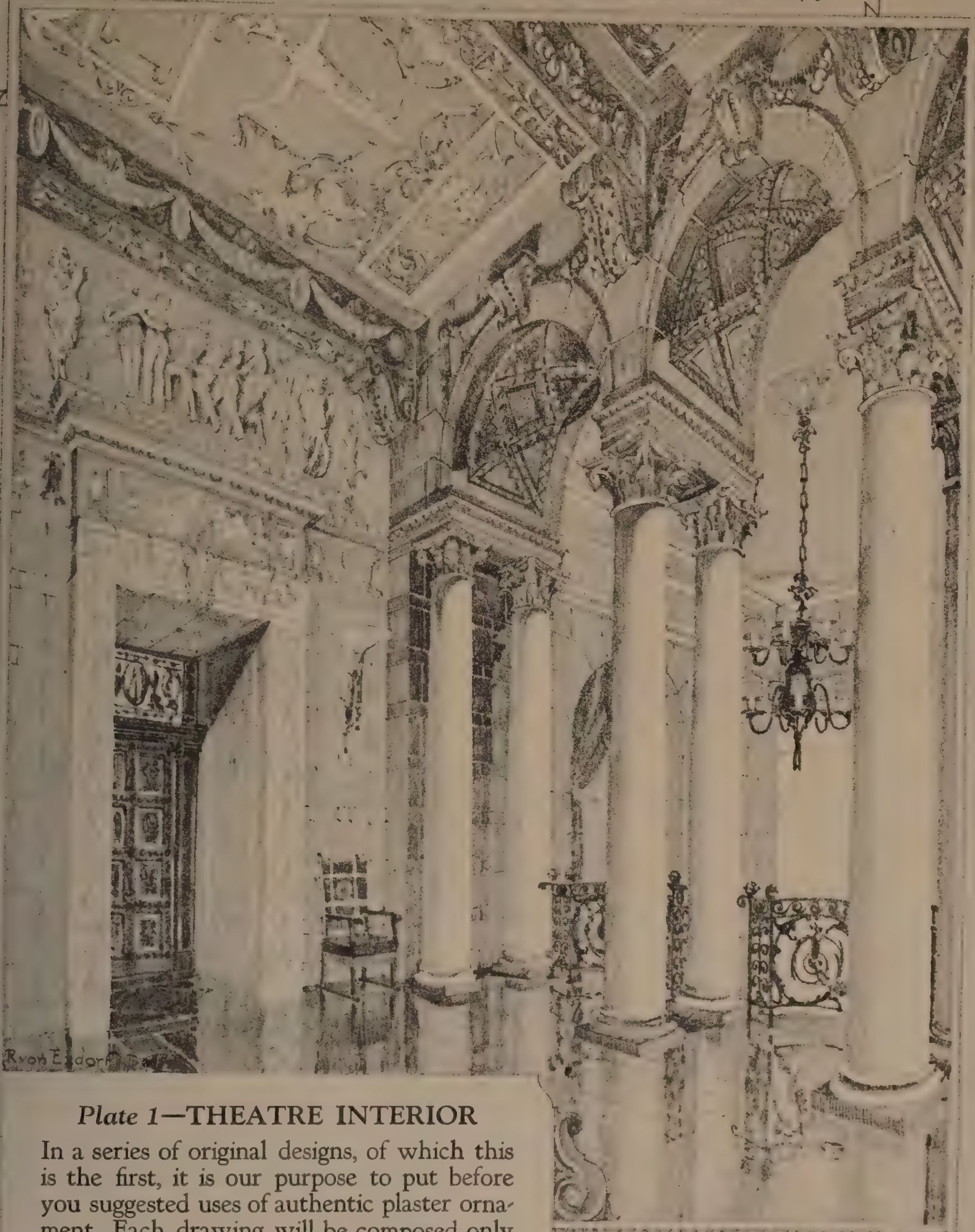

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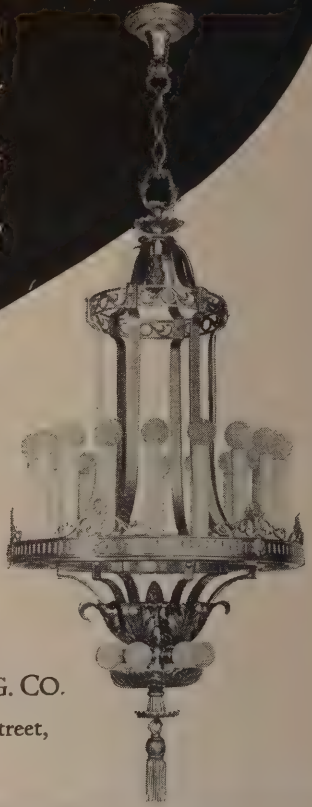

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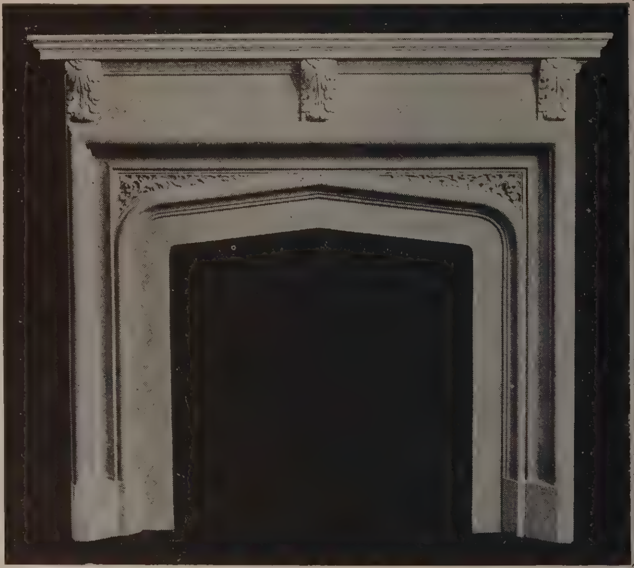

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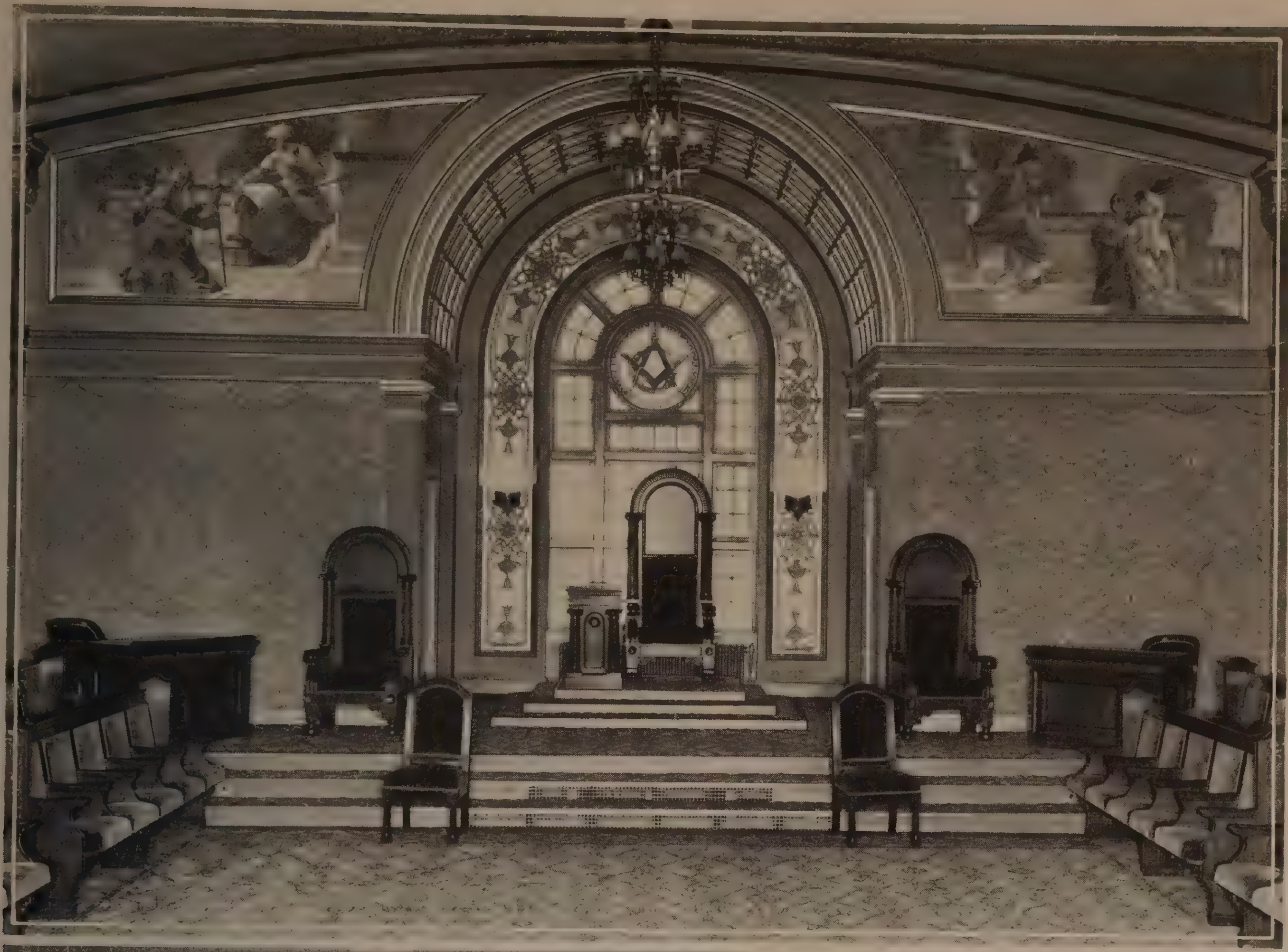

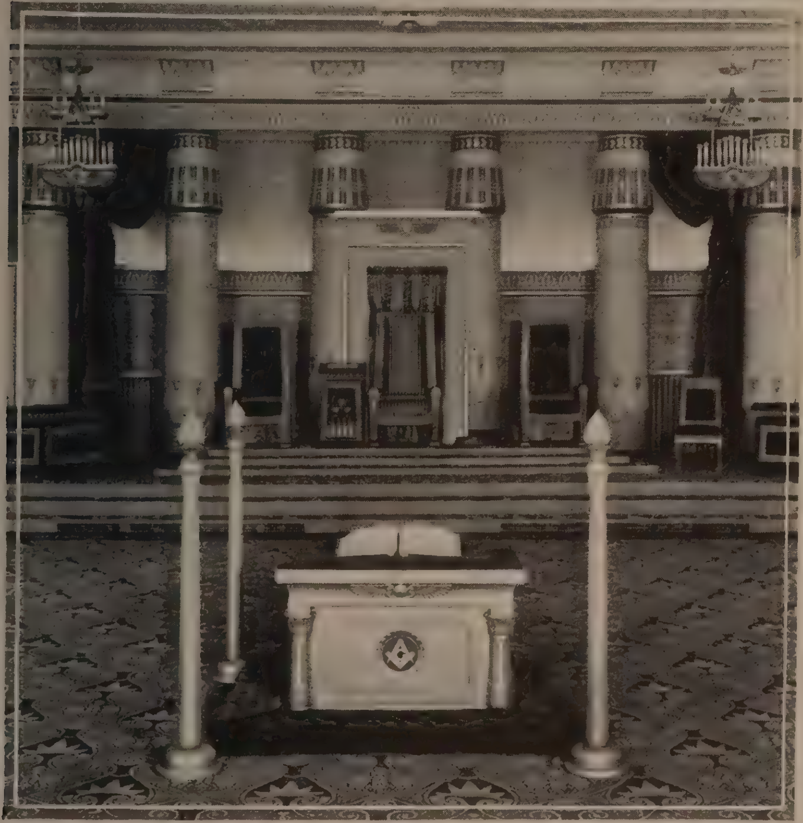

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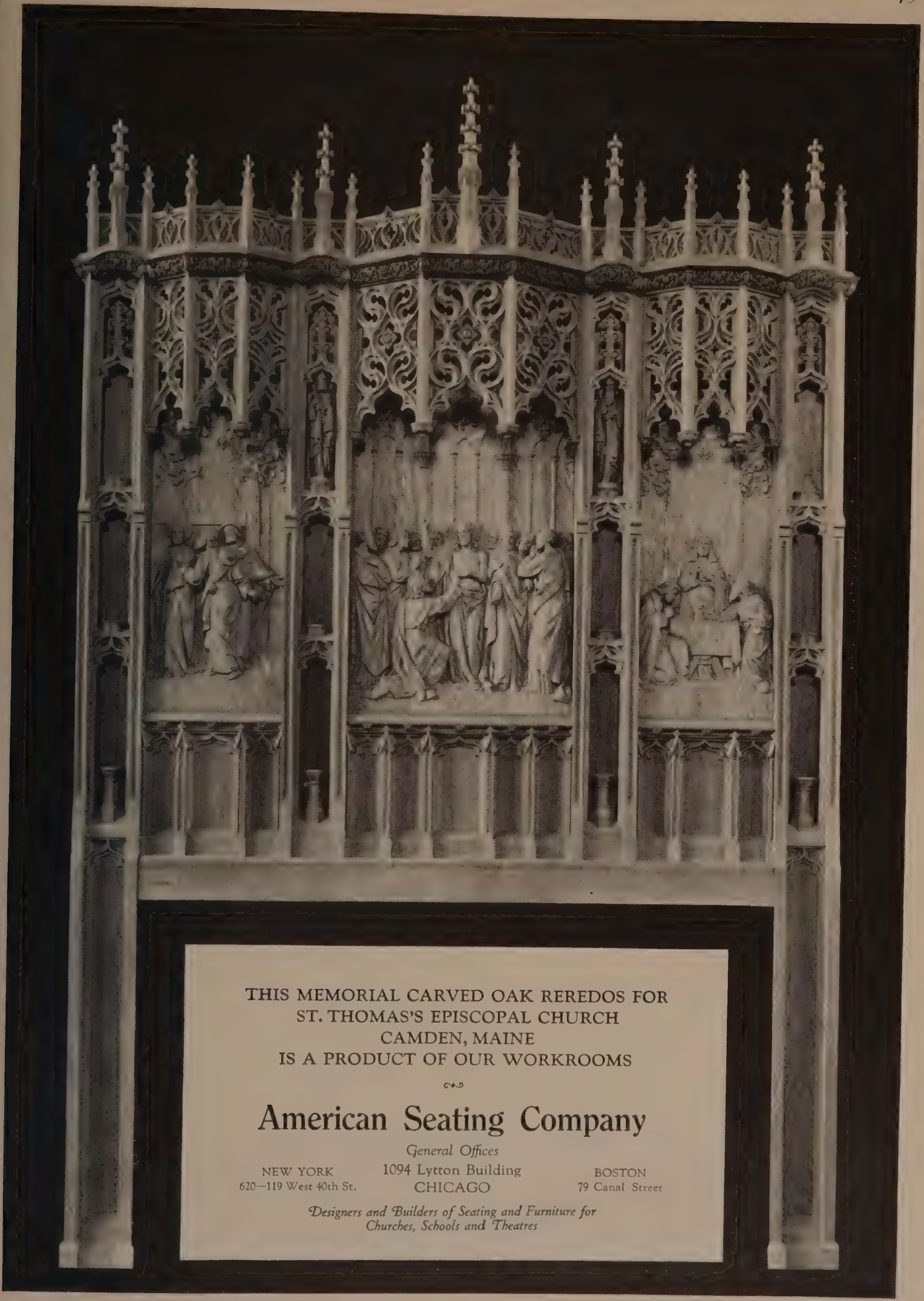

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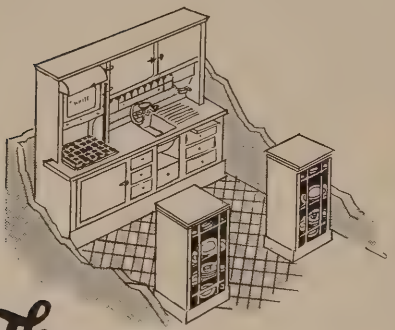

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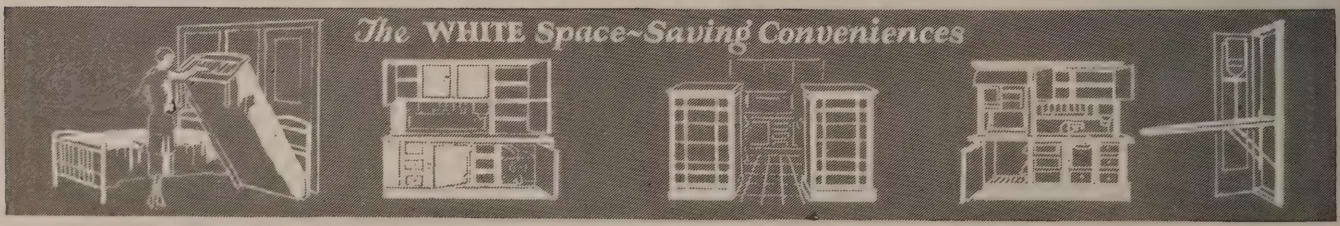

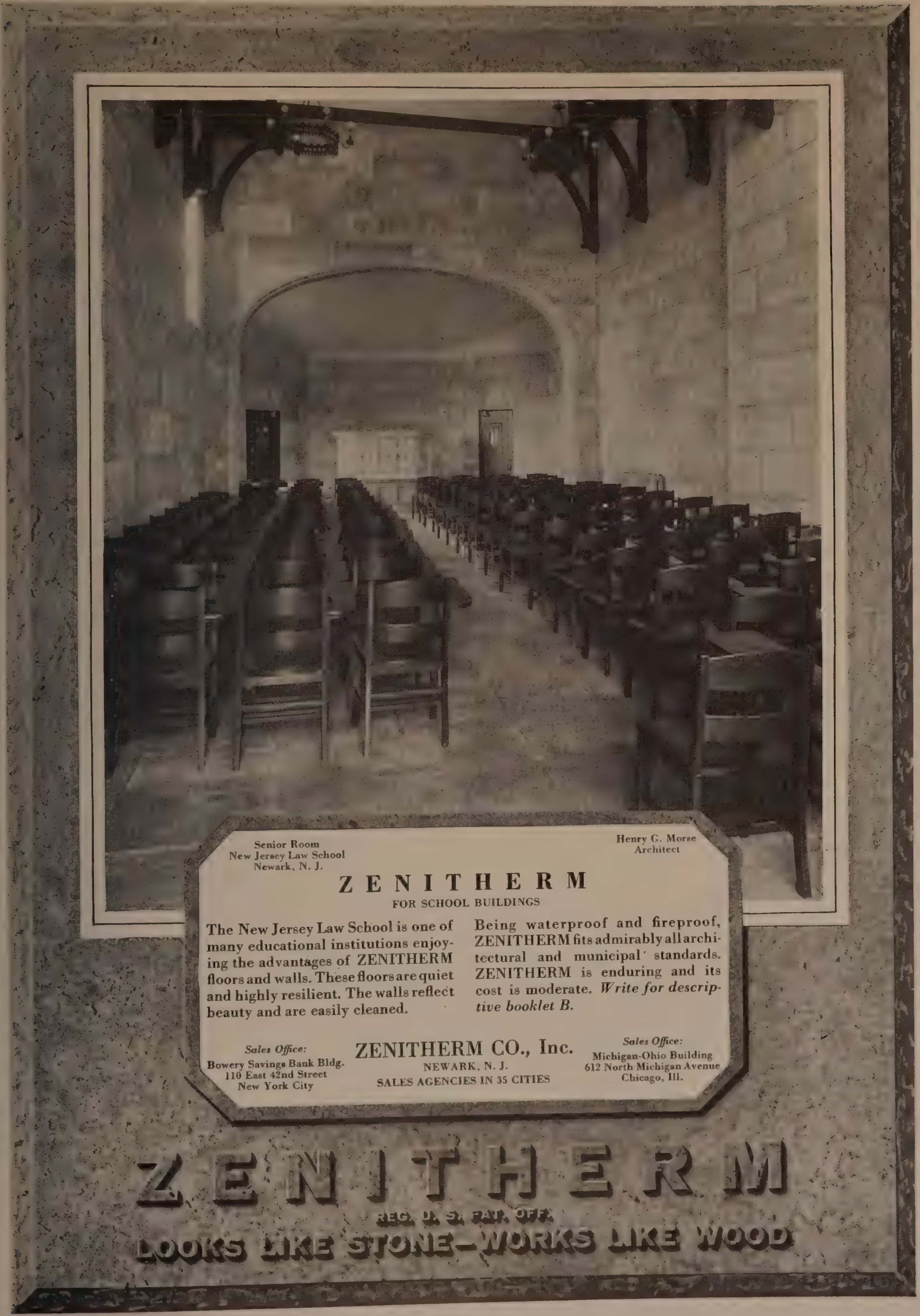

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Henry G. Morse
Architect

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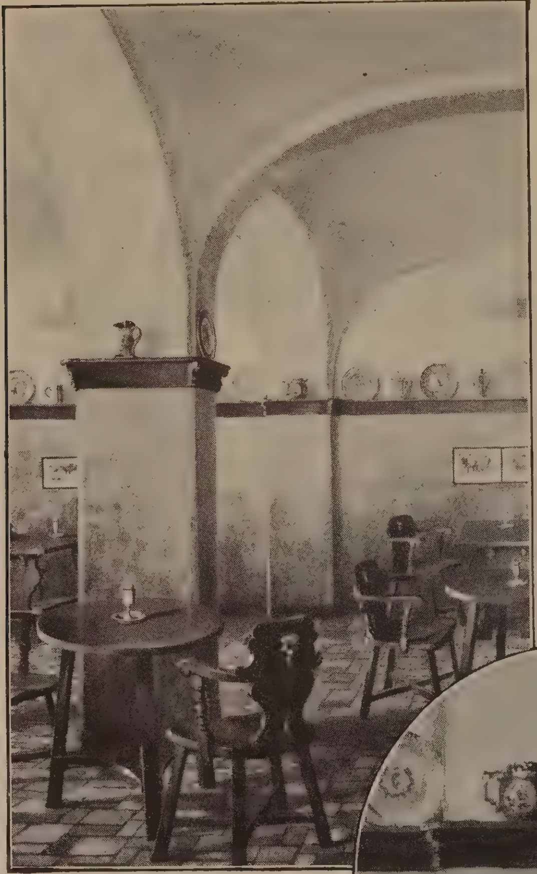
Interesting Interiors

By M. Rea Paul, *Consulting Colorist*

Fifth of a series of articles discussing practical uses of the newer wall finishes obtainable with Dutch Boy white-lead and Dutch Boy flatting oil

An effective use of the Shaded Tiffany Finish in the grill-room of a hotel. By careful blending and gradual shading, an illusion of increased height has been produced



Interior reproduced from full-color picture appearing in "Decorative Possibilities of Paint," a valuable new booklet that will be sent upon request

Close-up showing the gradation of tone obtained by using the Shaded Tiffany Finish in the room illustrated

The Shaded Tiffany Finish

MUCH of the charm of this attractive grill comes from the exquisite blending of colors employed on the side walls. This effect is known as the Shaded Tiffany Finish—so named because it is gradually shaded from dark coloring at the base to the lighter first coat at the top.

This effect may be employed either in panels or as an all-over wall treatment, as a means of giving the appearance of increased height. Starting at the baseboard or wainscoting in deep, rich, carefully blended tones, the Shaded Tiffany extends toward the ceiling line, gradually thinning out until at the top there is scarcely more than the undercoat color showing. It is this careful blending and gradual shading that creates the illusion of increased height.

Where to use it

The Shaded Tiffany Finish can be rendered either on smooth or rough finished plaster, but the best results are secured on the smooth surface. In addition to the hotel grill, the Shaded Tiffany may be used to advantage on the side walls of the hotel lobby or corridor, in the assembly room of the school, the entrance hall of the apartment, the chapel of the church, the dining room of the home, the depositors' room of the bank, or the smoking room of the club or theatre.

The blend may be of warm browns and reds and yellows, or it may take the form of cooler colors, such as green and blue. An ivory undercoat is usually employed.

Send for Booklet on Distinctive Finishes

Complete directions and formulas for producing the Shaded Tiffany Finish are contained in a new booklet in color, "Decorative Possibilities of Paint." In it also are instructions for obtaining many other interesting finishes with Dutch Boy white-lead and Dutch Boy flatting oil. A copy of this booklet will be sent you if you will write our nearest branch. Color specialists in the Department of Decoration of National Lead Company will be glad to assist you, without charge, in planning decorative wall treatment you have in mind. Address them in care of our nearest branch.

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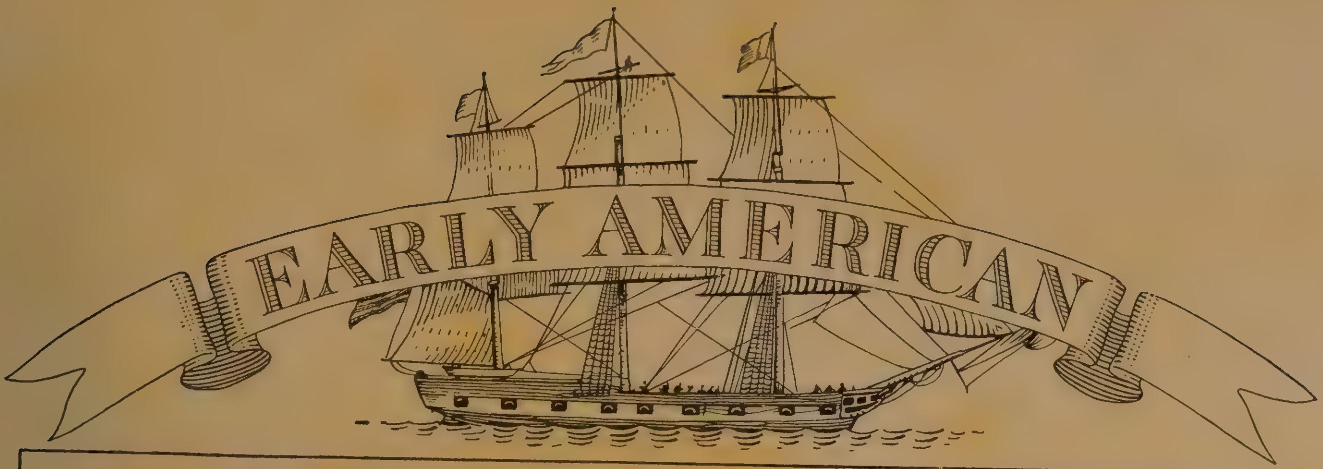

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Fair Street, Nantucket, by Henry S. Eddy

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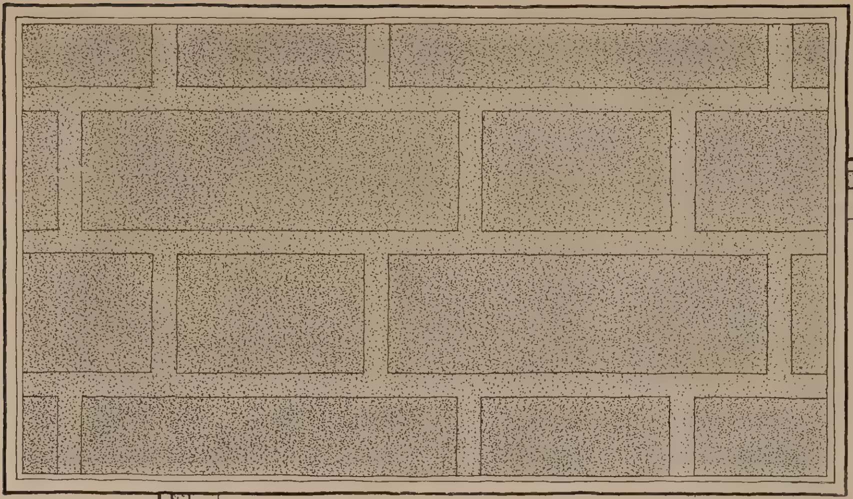

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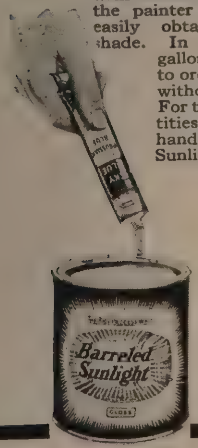

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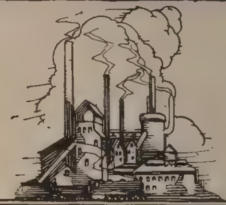

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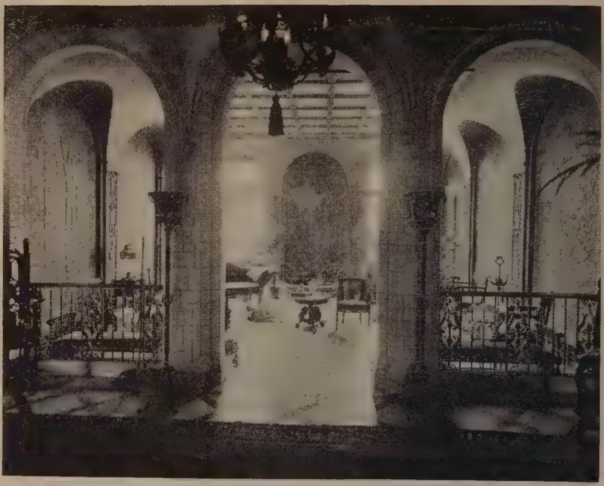

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DESPITE the fact that every one appreciates the beauty of fine grained Oak flooring, many architects unfortunately have difficulty in obtaining it. The usual method of specifying *by grade only* is not sufficient.

Flooring is graded according to freedom from certain defects into clear, select, common and factory. Little or no consideration is given to grain and texture. Consequently flooring of coarse grain with a great variation in pattern between boards may be legitimately sold as "clear" (the best) without violating the grading rules.

Fine grain is a matter of timber growth. If forest conditions facilitate rapid growth, the annular growth rings are far apart and the wood is coarse-grained; while if climate, soil and drainage favor slow, uniform growth, as in the Appalachian Highlands, the annular growth rings are close and the grain fine.

To be certain of securing fine-grained Appalachian Highland Oak Flooring, architects should specify both the *grade* and the *territory*. All Ritter Oak Flooring is manufactured from timber grown in the Appalachian Highlands, and each piece is branded on the back, "W. M. Ritter Lbr. Co." for identification.

The same excellent qualities so characteristic of Ritter Appalachian Highland Oak also make Ritter Appalachian Oak Lumber superior for interior trim.

W. M. RITTER LUMBER CO.
Appalachian Lumbermen since 1890
General Offices: Columbus, Ohio

Slow growth which depends on favorable climate, soil and drainage, causes the close annular growth rings (A), which, in turn, produce the fine, even grain (B), typical of all Ritter Appalachian Oak Flooring (Fig. 1), the use of which assures the most beautiful Oak floors.

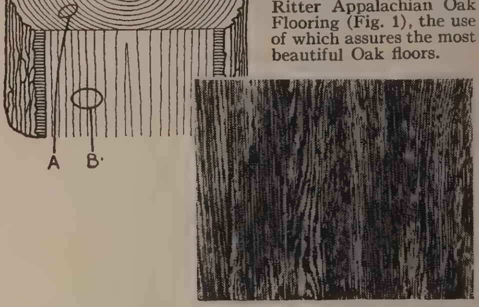


Fig. 1

Fast-growing Oak results in the wide annular growth rings (C), which, in turn, produce the coarse grain (D). Fig. 2 shows a panel of flooring made from rapid-growing Oak. Such flooring lacks the elegance and charm typical of Ritter Appalachian Oak Flooring which is made exclusively from slow-growing Appalachian Highland Oak timber.

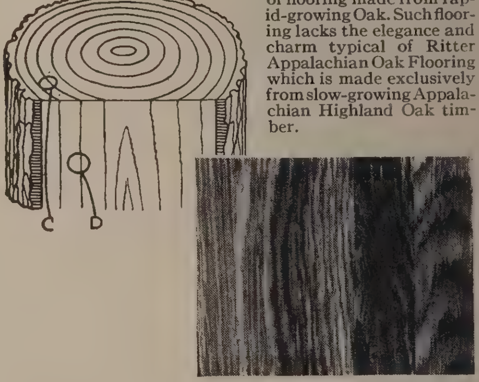


Fig. 2

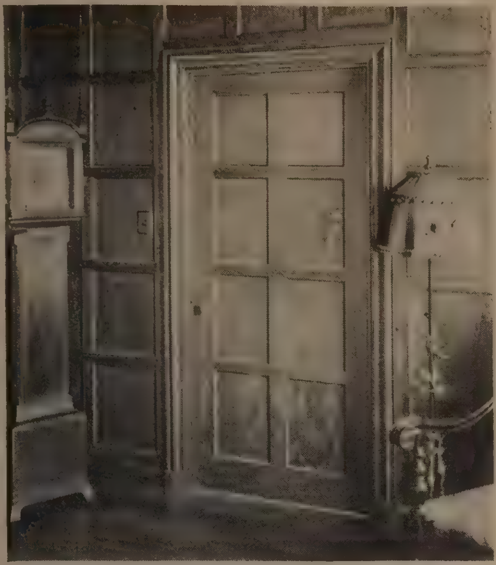
RITTER
APPALACHIAN
OAK LUMBER

W. M. Ritter Lumber Co.,
Dept. F, Columbus, Ohio
Please send me complete information on Ritter Appalachian Oak Flooring and Ritter Appalachian Oak Lumber for interior trim.

Name..

Street..

City..........................State..........



From TUDOR *Times*

IN the days of good Queen 'Beth wood paneling was a favorite finish for interior walls, and so highly was such paneling prized that often when a householder moved from one home to another he took his wall paneling with him. Genuine Tudor paneling is charming because of its carefully worked-out proportions — a quality not always found in much paneling that purports to be of Tudor design.

Here in this Curtis door C-305, which is designed especially for the room with Tudor paneling, these proportions are faithfully carried out. The horizontal rails line up exactly with the panels on the walls. Being of English origin, this door also fits perfectly into the interior where the walls have a sand plaster or rough finish, and it appears at its best when stained or waxed so as to bring out the natural beauty of the grain of the wood (oak). Door C-305 is furnished by Curtis in sizes 1⅜" thick.

Note the trim around this door. Its surface has beautifully rounded moldings, rather large in profile, so as to produce definite lights and shadows when the wood is stained or waxed. It is mitered at the corners, being of one piece, and is easy to cut and fit.

A short plinth block below is suited to a relatively narrow baseboard, such as the narrow bottom rail of the door requires. This trim is Curtis Standard Trim C-1660, one of the most distinctive of the many Curtis trim families. All Curtis trim patterns were detailed by Trowbridge & Ackerman, New York City.

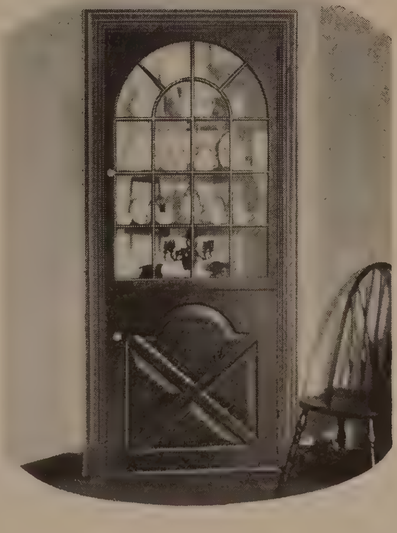
Woodwork with Soft, Rounded Lines *and* Rich, Warm Texture

HERE are shown a few examples of Curtis Woodwork designs suitable for homes in the various English styles.

The fine craftsmanship that distinguished English woodwork is reflected in Curtis workmanship and construction methods today. Yet Curtis Woodwork costs no more than other millwork, often less—because of large scale production and wide distribution.

These and many other Curtis designs (for English and other types of houses) are produced in standard sizes and woods and are available for immediate delivery.

The leading dealer in woodwork in your town (if your practice is east of the Rockies) is probably a Curtis dealer. See him and select from his stock or the Curtis Catalog, the proper designs, sizes and woods to suit your plans. He will be glad to explain in detail all the construction features of every Curtis article; or write us for further information.



English of the QUEEN ANNE *Period*

VISITORS to the new American Wing of the Metropolitan Museum of Art, in New York City, stop to admire the original china closet of which this Curtis design is a replica. It is in a room restored from an old farmhouse built in the Connecticut River Valley in the second quarter of the eighteenth century. The Museum booklet says that the arches are "strongly reminiscent of a treatment usual in work of the reigns of Queen Anne and George I." The crossed rails and raised beveled panels in the lower door form a design peculiar to the Connecticut River towns.

This Curtis design C-703 is 7'0⅜" high, 3'3¾" wide, including trim; and 1'6" deep overall. The case is made to set across a corner of the room. As illustrated, in unselected birch, it is supplied by Curtis dealers for less than $70.00. Also furnished in white pine and oak.

1866
CURTIS
WOODWORK

The Curtis Companies Service Bureau, 462 Curtis Bldg., Clinton, Iowa

Representing—Curtis Detroit Co., Detroit, Michigan; Curtis-Yale-Holland Co., Minneapolis, Minnesota; Curtis Bros. & Co., Clinton, Iowa; Curtis & Yale Co., Wausau, Wisconsin; Curtis Sash & Door Co., Sioux City, Iowa; Curtis, Towle & Paine Co., Lincoln. Nebraska; Curtis, Towle & Paine Co., Topeka, Kansas; Curtis Door & Sash Co., Chicago, Illinois; Curtis Companies Inc., Eastern Sales Office: 25 West 44th Street, New York City, *Curtis Companies, Incorporated, Clinton, Iowa.*

Design by E. H. Bennett, Architect

Whitehall Apartment, Palm Beach, Florida. M. L. Hampton, Architect, and E. A. Ehmann, Associate Architect, Miami, Florida.

Modern Florida is reflected in this classic courtyard

And no small part of its charm lies in the magnificent latticed pavilion, much of the material for which was fashioned by Hartmann-Sanders craftsmen.

Literally a revelation awaits architects when first they utilize the genius of these trained craftsmen, for either interior or exterior work. These men have a sympathetic understanding of the architect's viewpoint—know how to interpret his discriminating requirements—to the end that true expression may be given his artistic conceptions.

Catalogs of Entrances, Koll Lock-Joint Columns, or Garden Equipment gladly sent on request. Hartmann-Sanders Co., 2151 Elston Ave., Chicago, Ill.; Eastern office and salesroom, 6 East 39th St., New York City.

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KOLL LOCK-JOINT COLUMN
THEY CANNOT COME APART

Colonial
Entrances
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A Miracle of Strength and Beauty

PAINE LUMBER COMPANY, Ltd.

OSHKOSH, WISCONSIN.

Screwless Switch and Outlet Plates of Bakelite Molded

No screw holes nor screws break the smooth, lustrous surface of these new Bakelite flush plates. They are designed to snap into position with the pressure of one's fingers.

To the mechnical advantages of these plates is added the permanent beauty of color and finish that distinguishes Bakelite.

In any climate and under any atmospheric conditions, Bakelite will not corrode nor stain. Its insulation properties prevent any disagreeable shocks due to static electricity.

Bakelite plates are also made to fit the standard types of wall switches and outlets. Upon your invitation we will see that samples are shown to you in the several designs and colors now available.

BAKELITE CORPORATION

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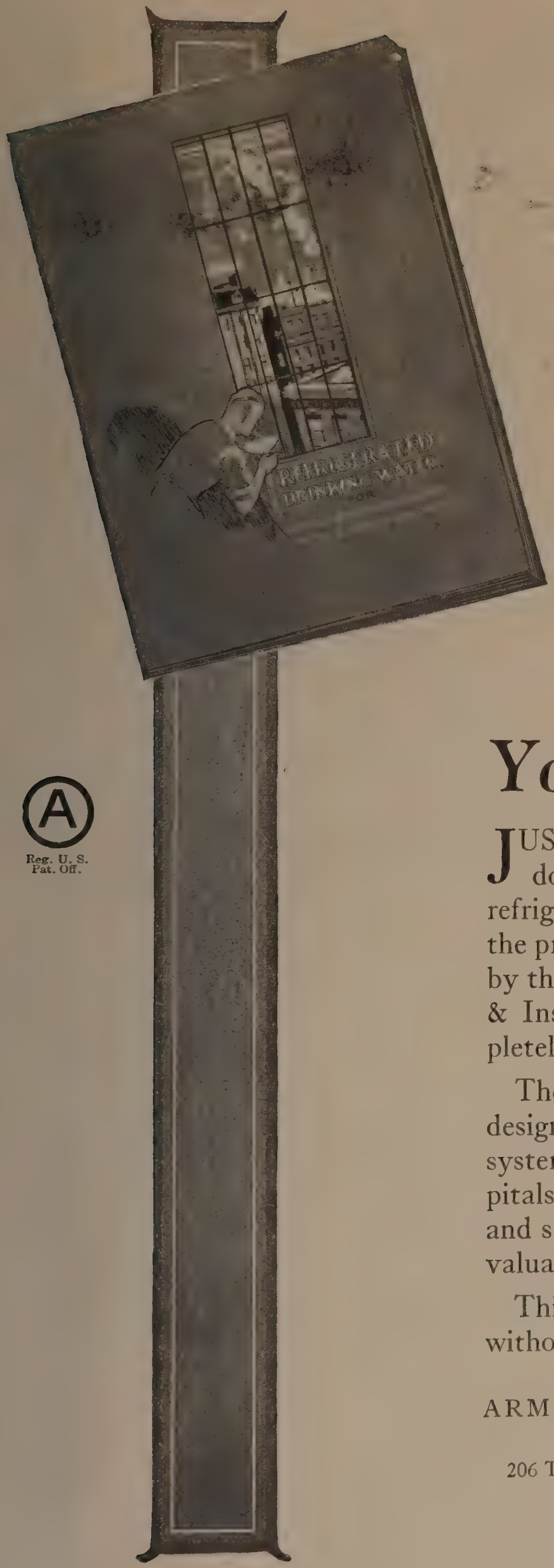

A Handbook of Information on Refrigerated Drinking Water Systems

Yours for the Asking

JUST what you have looked for so often and so seldom found—reliable and up-to-date information on refrigerated drinking water. This new book, just off the press, is based on data collected for the past 20 years by the Engineering Department of the Armstrong Cork & Insulation Company, and covers the subject completely.

The book discusses the principles and details of the design and insulation of refrigerated drinking water systems for mills and factories, office buildings, hospitals, schools, and hotels. There are also instructions and specifications for applying the insulation and much valuable data, as well as useful tables.

This book is available to architects and engineers without charge and will be supplied on request.

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for Cold Lines, Coolers and Tanks

34,000 Feet of Maple Flooring

used for the famous dance floor, Saltair Pavilion

WHEN plans for the great Saltair Pavilion at Salt Lake City were made, Maple was chosen for the dance floor. Maple—because of all woods, Maple can stand the wear of thousands of dancing feet. Maple—because Maple alone will remain smooth, even and beautiful year after year.

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The letters **MFMA** on Maple, Beech or Birch flooring signify that the flooring is standardized and guaranteed by the Maple Flooring Manufacturers Association, whose members must attain and maintain the highest standards of manufacture and adhere to manufacturing and grading rules which economically conserve every particle of these remarkable woods. This trade mark is for your protection. Look for it on the flooring you use.

MFMA

Floor *with* Maple
Beech *or* Birch

Trade UNITED STATES RUBBER COMPANY US RUBBER SYSTEM AND ASSOCIATED COMPANIES Mark

FLOORS of noiseless, resilient beauty—colorful and distinctive—embodying a sturdy durability that approaches permanency. You assure your clients all this—backed by the reputation of the world's largest maker of products of rubber—when you include "U. S." Tile Flooring in your specifications. There are over thirty distinct color combinations and designs from which to choose. Let us send you complete information for your files.

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Preston Rectangular Shingles
Put them over your old roof
Preston
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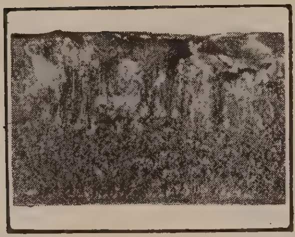
Preston Billboards

prove three things—



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THE wearing qualities of Preston Shingles depend not only on the quality but also on the quantity of asphalt which each shingle contains. If you examine the edge of a Preston Shingle you will notice that it is practically a solid body of asphalt. This feature of Preston Shingles accounts for their remarkable wearing qualities.

A GLANCE at the shingles on a Preston billboard advertisement tells a story. Their thick butts give the shadow line that architects demand. The slate particles with which they are surfaced give soft-toned color effects that make any house distinctive. And there they are out under sun and rain, telling how well they stand the weather.

The massive weight Preston Shingle is *one-third thicker than a standard No. 1 slate shingle.* Preston Roofing is made in three thicknesses and four colors—green, red, blue-black and sunset. We will gladly send you samples and an architect's file card.

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Dept. D 23, York, Pennsylvania

Preston

ROOFING MFG. CO. K YORK, PA.

ROOFING

We advertise this way to your clients —

How a 45-year record cured a spasm of false economy—

"Well, how'd you make out?"

Jim Madden closed the door and grinned down at his senior partner.

"They O.K.'d all our specifications for their new plant without batting an eye—until they reached the roof!"

"Then you struck a snag, eh?"

"Just at first, yes. Somebody had a sudden spasm of economy. 'Cut down costs' was the war cry. Somebody else knew of a 'fine' roof, a few dollars cheaper. I told them a roof was a poor thing to buy on the basis of *first cost.* But . . . ."

"So we've got to substitute for The Barrett Specification Roof?" asked the senior partner.

"No, sir! Luckily, old man Roberts, the President, came in right there and read 'em a lecture on *real economy*. Seems he knew about the roof on that old warehouse* in Boston laid 45 years ago, which never cost a cent for repairs. That's the kind of a roof he was going to have and nothing else but! And that was a Barrett Built-up Roof."

* * * *

Forty-five years of expense-free weather-tight service from a roof is a good record.

And there are many service records on file that show Barrett Roofs of this type, built 35, 40 and more years ago, which are still absolutely weather-tight—and not a cent spent on them. In addition—

Barrett Specification Roofs are guaranteed by a Surety Bond against repair or maintenance expense for a full 20 years.

Finally these roofs take the base rate of fire insurance.

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*For 45 years a Barrett pitch-and-felt roof has protected the old north building at India Wharf, Boston, Mass.—45 years of rain, sun, and snow—of racking vibration from docking steamers. And this roof is still staunchly weather-tight. In all this time no record of repair or maintenance expense.

Barrett
SPECIFICATION ROOFS

—and here's your side of this roof thing (Re. the "or equal" clause)

It's a trouble-maker—that loophole phrase "Or equal."

Should it be incorporated in your roofing specifications—or not?

Experience of leading architects says "Certainly *not!*" And for these reasons:

When you write "or equal" in your roofing specification you open the door to all types of competition—leave the high-grade roofing contractor to fight it out with the fly-by-night roofer. Result? Price wins the job—and you lose prestige when the "or equal" roof goes wrong.

A better way—a time-proved way—is this:

Write "Barrett Specification 20-year Bonded Roof" and break the pen *there.* You're then assured of these important facts:

1—Assured of the advantage of competitive bidding on an equal basis among roofing contractors who have earned a name for doing high-grade conscientious work.

2—Assured that a highly trained Barrett Inspector will inspect the roof and so make certain that The Barrett Specification (nationally accepted as standard for built-up roofs) is followed to the letter.

3—Assured that when this roof is O.K.'d by the Barrett Inspector (and his report checked and rechecked), the building owner will receive a Surety Bond guaranteeing him against repair or maintenance expense for 20 years. Supervision is off your mind—your responsibility is definitely underwritten.

Service records prove that great numbers of roofs of this type have far outlasted the guarantee period. Many such roofs have stood absolutely weather-tight 30 and 40 years without one cent of repair expense.

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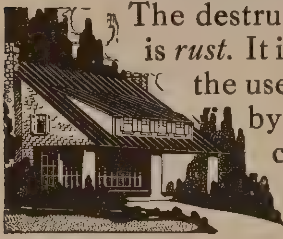

The destructive enemy of sheet metal is *rust.* It is successfully combated by the use of protective coatings, or by scientific alloying to resist corrosion. Well made steel alloyed with Copper will last longest. Insist upon

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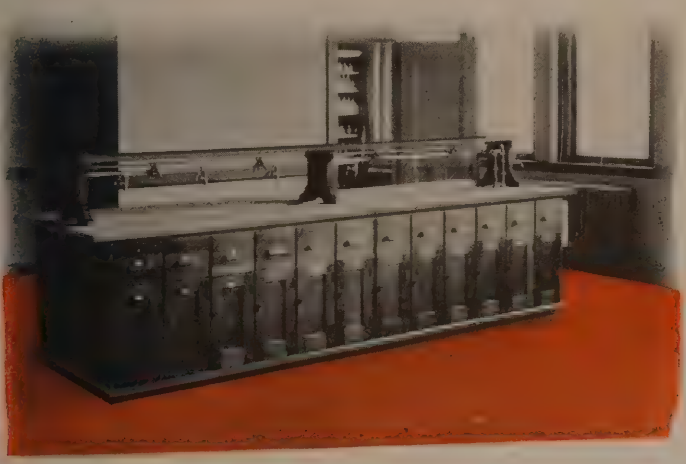
RED ASPHALT FLOORS are quiet, warm and dustless. Sanitary, because they have no seams and may be coved at sides and corners. Full 5/8″ thickness positively guaranteed. May be laid over old or new foundation and used the next day. No fire risk during laying. Absolutely water-proof, fire and acid resistant, never cracks. Marks are obliterated by use.

GUARANTEE

We will replace **RED ASPHALT FLOORS,** if they do not satisfy, with any floor of equal or lower cost selected by the buyer, without cost to him. This is an iron-clad guarantee which we stand back of. This floor has so thoroughly proven its desirability that we unhesitatingly stand back of it to any extent.

Special Sample Box and Specification Bulletin

Know this floor, and you will want to use it. A compact sample box has been prepared for architects and builders and will be sent with specifications in standard filing size. We will gladly quote you on your needs.



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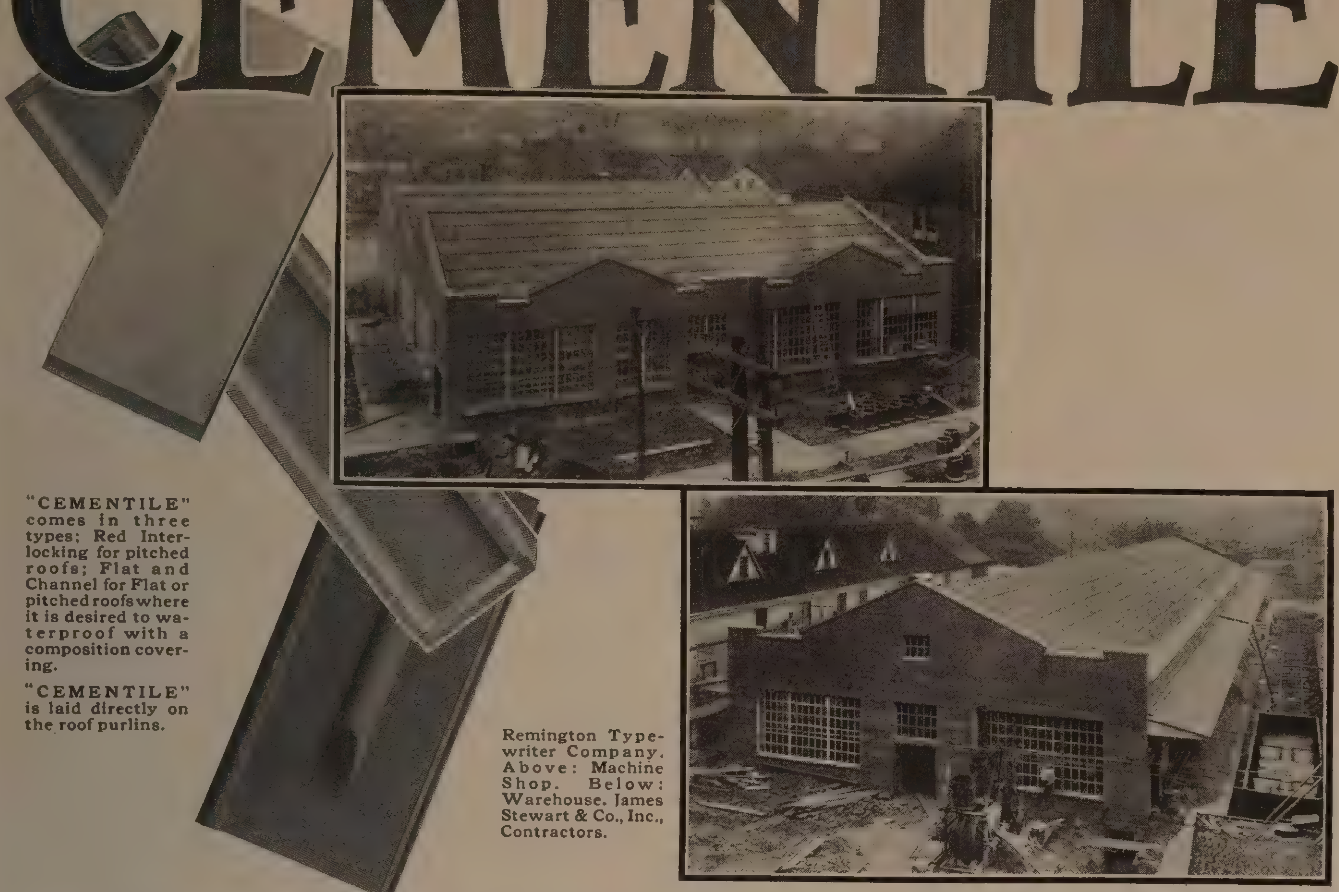
CEMENTILE



"CEMENTILE" comes in three types: Red Interlocking for pitched roofs; Flat and Channel for Flat or pitched roofs where it is desired to waterproof with a composition covering.

"CEMENTILE" is laid directly on the roof purlins.

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Please send me "Cementile" Literature containing Industrial Roofing Engineering Data:

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Company ....

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City ....

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1101 Oliver Building, Pittsburgh, Pa.

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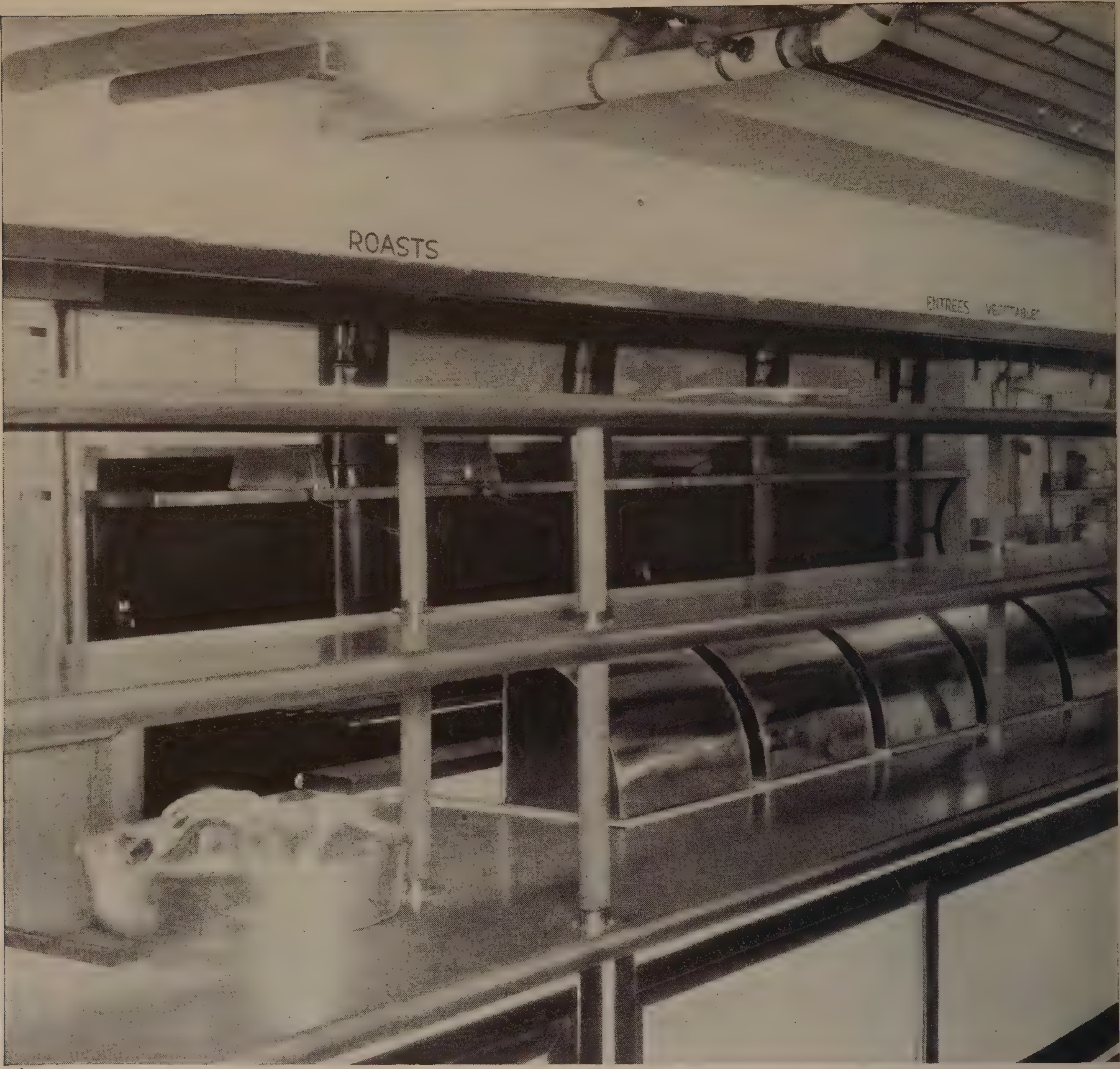
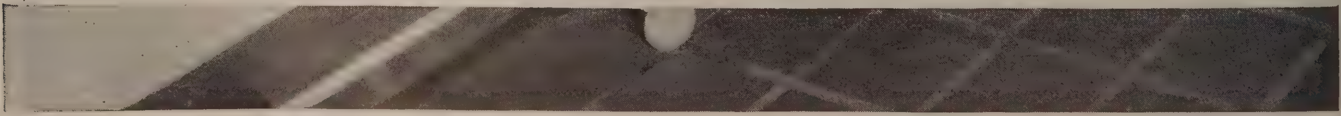


Good Engineering is the First Requirement of Any Kitchen or Restaurant

The New Bismarck Hotel Kitchen, Chicago, is an outstanding example of PIX Engineering

The WORLD'S LEADING EQUIPMENT HOUSE



THE best of equipment cannot do its work unless properly arranged. Thus engineering knowledge is the first requirement of a kitchen or restaurant that is to be economical in operation, low in first cost and free from expensive replacements. You are invited to consult Albert Pick & Company's Engineers—the country's foremost authorities. Their advice will assure an installation that unfailingly meets your needs, tomorrow as well as today.

ALBERT PICK & COMPANY

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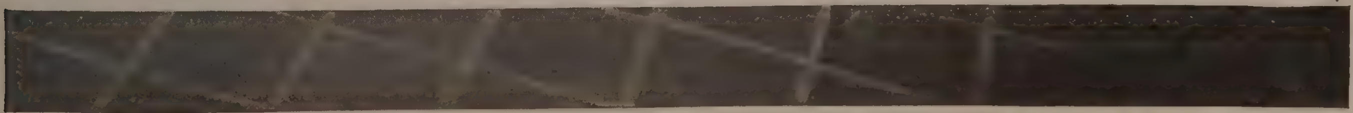
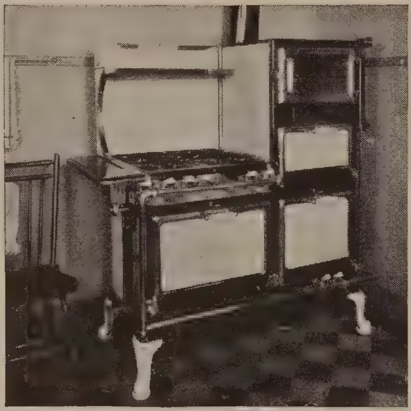
for HOTELS, RESTAURANTS, CLUBS, HOSPITALS

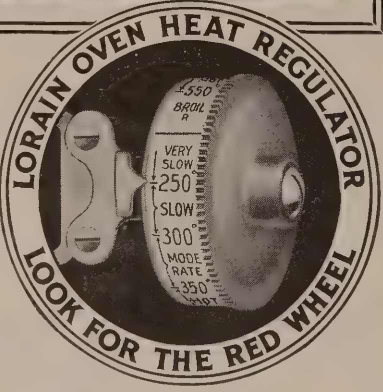


Make Room for Kitchen Progress

Illustration above shows residence of Mr. J. Paul Zens, 2891 Paxton Road, Shaker Heights, Ohio. Architect, Philip Lindsley Small, Cleveland, Ohio. Below: Interior view of kitchen with Lorain-equipped Dangler Gas Range.



One easy turn of the Lorain Red Wheel gives the housewife a choice of any measured and controlled oven heat for any kind of oven cooking or baking.



Unless the Regulator has a RED WHEEL it is NOT a LORAIN

THE provision of adequate space for a Lorain-equipped Gas Range of cooking capacity in proportion to the size of the household should be a major consideration in planning the kitchen.

Women examining new homes look for the Red Wheel that identifies the Lorain Self-regulating Oven, because it means perfect cooking, easy canning and leisure.

More than 1900 school and university domestic science departments use Lorain Red Wheel Ovens. Millions of women see the Red Wheel advertisements that appear continually in their favorite magazines.

Lorain Red Wheel Ovens are built only in the following famous makes of Gas Ranges: **Reliable, Clark Jewel, Dangler, Direct Action, New Process** and **Quick Meal.** For specific data see Sweet's Catalog, 20th Edition, Pages 2769-2778 or send for our *Handbook on Gas Ranges for Architects and Builders.*

AMERICAN STOVE COMPANY
Largest Makers of Gas Ranges in the World
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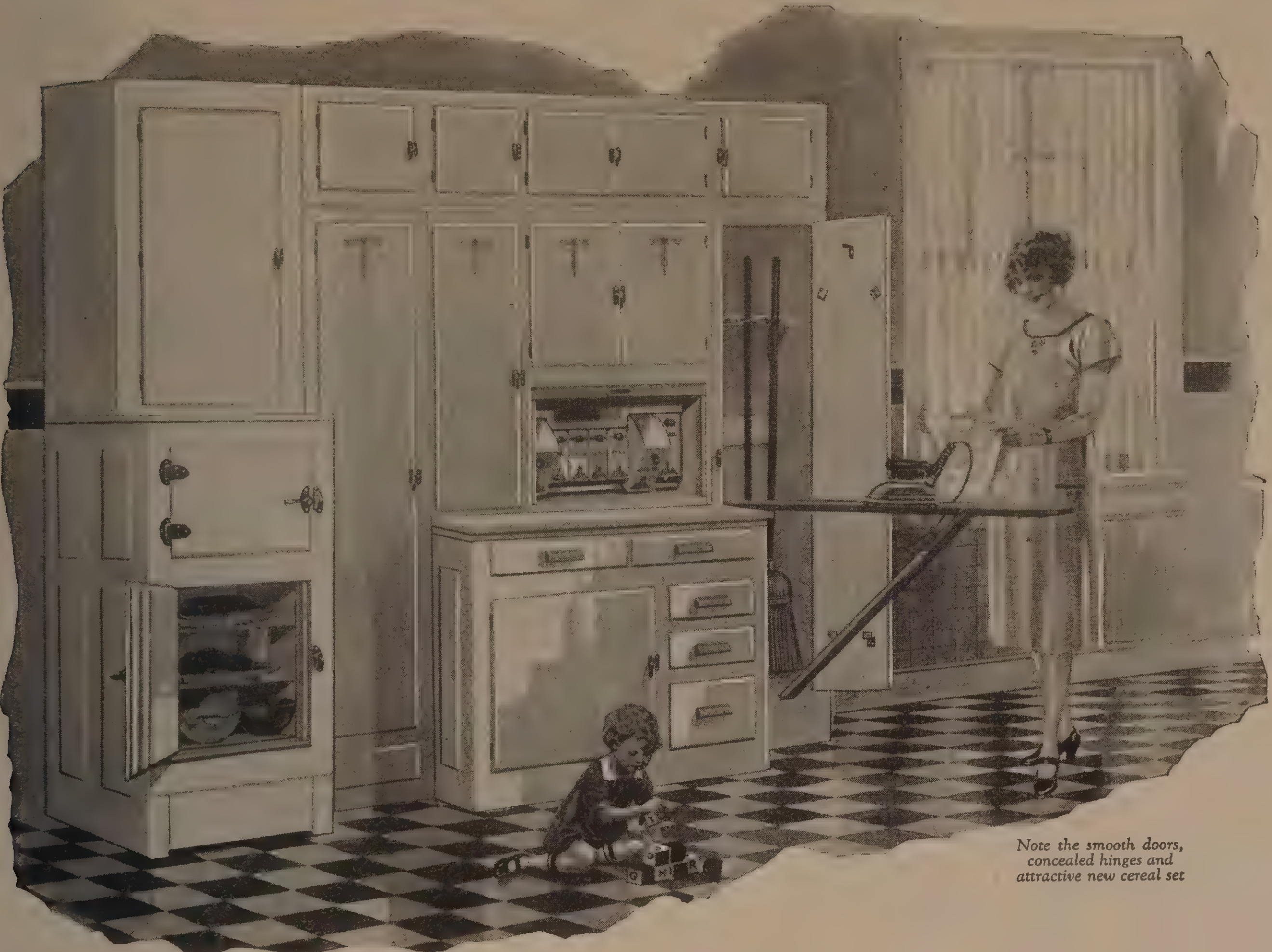
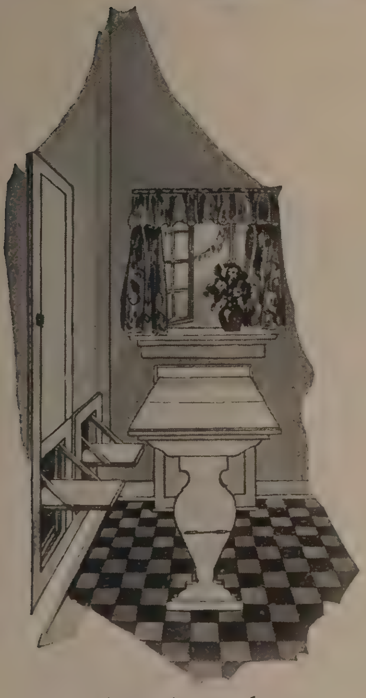
KITCHEN MAID

STANDARD KITCHEN UNITS



Note the smooth doors, concealed hinges and attractive new cereal set

These units replace the pantry . . . completely!



The Pulmanook

Consists of table and two or four chairs. Folds easily and quickly into wall

Never has the completeness of the Kitchen Maid line meant more in kitchen planning than today. With the latest trends eliminating the pantry these units have become the simple efficient, logical solution of the modern kitchen equipment problem.

Kitchen Maid Units include everything from kitchen cabinet to Pulmanook; from refrigerator to broom and dish closets; from folding ironing board to linen cupboards. Each unit is complete in itself; it can be used alone or in combination with any other units. Beautiful in design, substantial in construction, built with sanitary rounded inside corners and smooth panel doors—these units are a real source of satisfaction to every woman owning them.

Fine as they are, Kitchen Maid Units cost no more than old-fashioned cupboards. Mail coupon for catalogue, dimensional drawings, special prices.

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1811 Snowden Street, Andrews, Indiana

"Let the Kitchen Maid Be Your Kitchen Aid"

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Kitchen Maid Equipment Used in All Model Homes Built by Home Owners Institute

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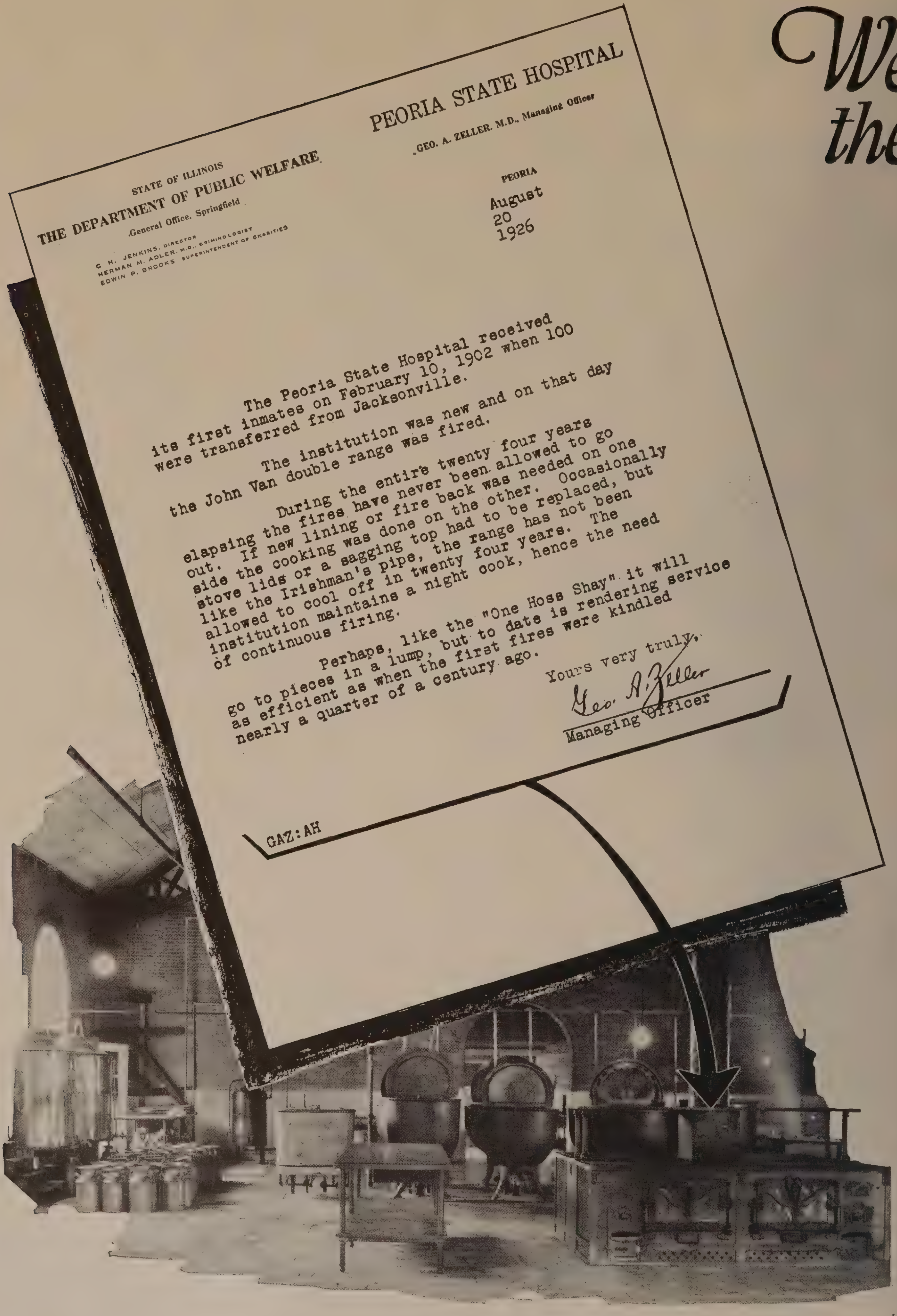

STATE OF ILLINOIS
THE DEPARTMENT OF PUBLIC WELFARE
General Office, Springfield
C. H. JENKINS, DIRECTOR
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PEORIA STATE HOSPITAL
GEO. A. ZELLER, M.D., Managing Officer
PEORIA

August
20
1926

The Peoria State Hospital received its first inmates on February 10, 1902 when 100 were transferred from Jacksonville.

The institution was new and on that day the John Van double range was fired.

During the entire twenty four years elapsing the fires have never been allowed to go out. If new lining or fire back was needed on one side the cooking was done on the other. Occasionally stove lids or a sagging top had to be replaced, but like the Irishman's pipe, the range has not been allowed to cool off in twenty four years. The institution maintains a night cook, hence the need of continuous firing.

Perhaps, like the "One Hoss Shay" it will go to pieces in a lump, but to date is rendering service as efficient as when the first fires were kindled nearly a quarter of a century ago.

Yours very truly,
Geo. A. Zeller
Managing Officer

GAZ:AH

honestly believe this to be finest testimonial ever given any kitchen equipment

WE have nothing to add to Mr. Zeller's letter. His tribute to Van Equipment sums up the satisfaction of all users, best expressed by Mr. Zeller's statement: "To date it is rendering service as efficient as when the first fires were kindled nearly a quarter century ago." It is the facts behind such letters as this that have made Van Equipment famous for its "enduring quality."

We have hundreds of other voluntary letters from users of Van Equipment. They are all just as enthusiastic about their equipment, just as warmly cordial to our company, for Van Equipment makes and keeps friends wherever it goes.

If you are contemplating new equipment—a complete installation or a single unit—by all means profit by the experience of others. Come to the house of Van. We know you, too, will write us of your satisfaction.

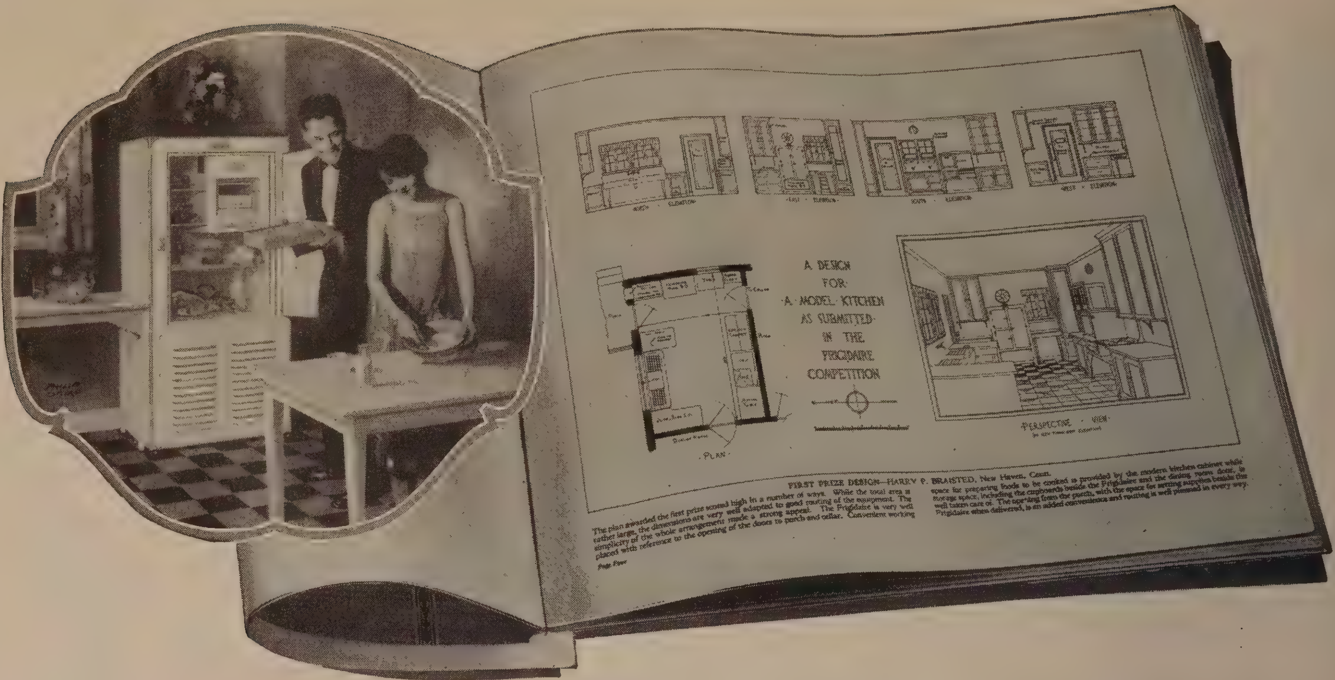
NEW ORLEANS
CLEVELAND
ATLANTA

The John Van Range Co.
EQUIPMENT FOR THE PREPARATION AND SERVING OF FOOD
Cincinnati

CHICAGO
LOUISVILLE
DETROIT

Below, exterior view of the food preparation division of the Peoria State Hospital, housed in this separate building. "Van" Equipment was first installed on February 10, 1902—and has been serving faithfully ever since.

Above, view of other "Van" Equipment in the Peoria State Hospital.



A DESIGN
FOR
A MODEL KITCHEN
AS SUBMITTED
IN THE
FRIGIDAIRE
COMPETITION

FIRST PRIZE DESIGN—HARRY P. BRAISTED, New Haven, Conn.

The plan awarded the first prize scored high in a number of ways. While the total area is rather large, the dimensions are very well adapted to good routing of the equipment. The simplicity of the whole arrangement made a strong appeal. The Frigidaire is very well placed with reference to the opening of the doors to porch and cellar. Convenient working space for preparing foods to be cooked is provided by the modern kitchen cabinet while storage space, including the cupboards beside the Frigidaire and the dining room door, is well taken care of. The opening from the porch, with the space for setting supplies beside the Frigidaire when delivered, is an added convenience and routing is well planned in every way.

Page Four

We offer this book of kitchen plans

EVERY architect should have a copy of the Frigidaire Kitchen Plan Book. It contains the most interesting and valuable plans submitted in a nation-wide architectural competition. It shows how space can be saved and much greater kitchen convenience assured through the use of Frigidaire Electric Refrigeration.

Frigidaire is made in a wide range of models that permit the greatest possible convenience of arrangement in homes both large and small. There are also Frigidaire models that will efficiently and economically fill the need of apartments, stores, clubs, hotels and restaurants—models which will insure satisfactory performance wherever refrigeration is a part of the architect's plans.

There is only one electric refrigerator named Frigidaire. It is a product of General Motors—made by the world's largest builder of electric refrigerators—endorsed by the satisfaction of more than 250,000 users. The dependability, durability and economy which have won world leadership for Frigidaire are found only in genuine Frigidaire.

Write today for the Frigidaire Kitchen Plan Book and complete information about Frigidaire.

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THE FRINK CO. Inc.

241 Tenth Avenue, New York

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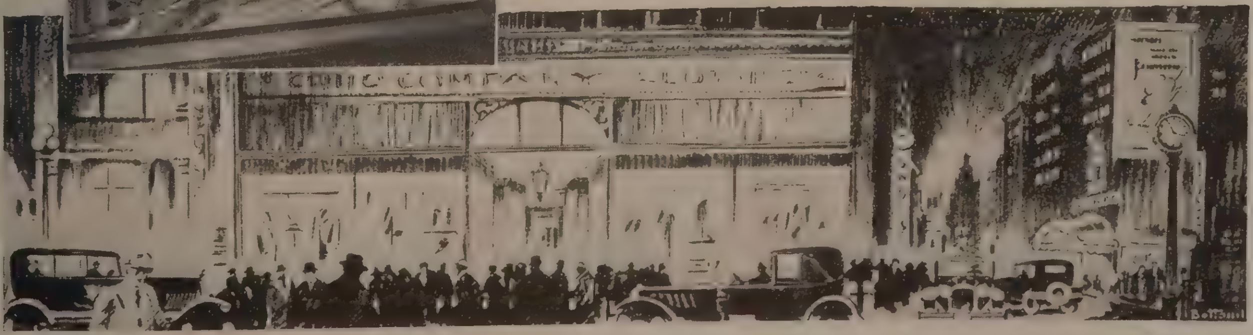

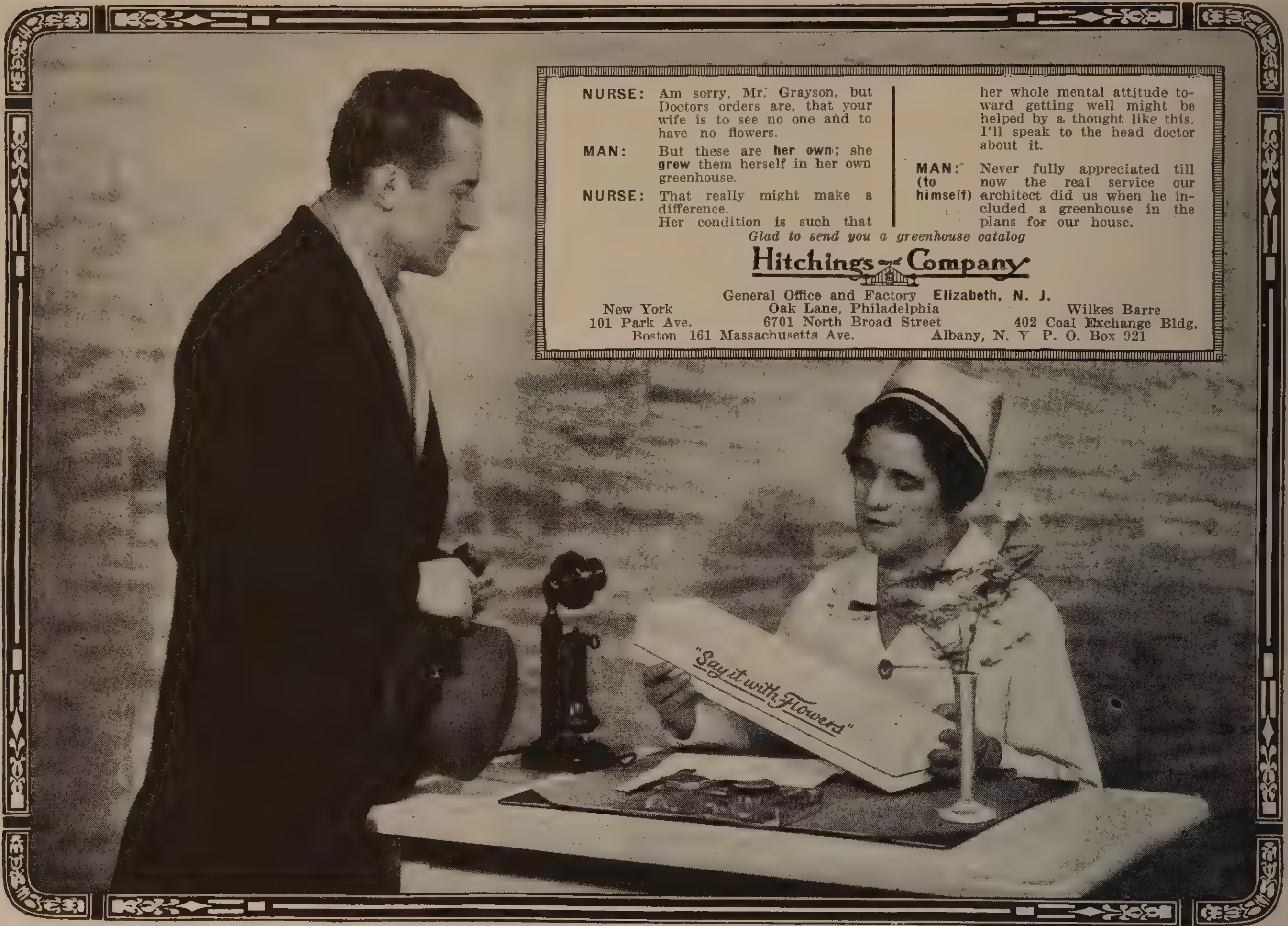

NURSE: Am sorry, Mr. Grayson, but Doctors orders are, that your wife is to see no one and to have no flowers.

MAN: But these are **her own**; she **grew** them herself in her own greenhouse.

NURSE: That really might make a difference. Her condition is such that her whole mental attitude toward getting well might be helped by a thought like this. I'll speak to the head doctor about it.

MAN: (to himself) Never fully appreciated till now the real service our architect did us when he included a greenhouse in the plans for our house.

Glad to send you a greenhouse catalog

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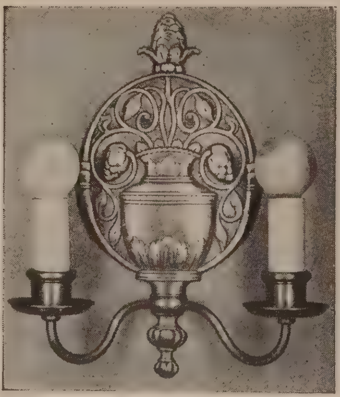

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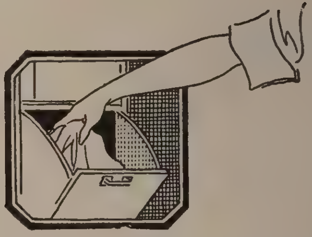

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Watts	Skt.	Dia. Ref.	Glass Size	No.	Price	No.	Price	No.	Price	No.	Price
75 to 150	Med.	12½"	8⅜" x 4"	B2820	$5.90	B2823	$6.45	B2826	$8.10	B2829	$7.55
200	Med.	17"	11⅜" x 5"	B2821	8.35	B2824	8.90	B2827	11.10	B2830	10.55
300 to 500	Mog.	21"	14⅛" x 6"	B2822	11.65	B2825	12.80	B2828	15.60	B2831	14.45

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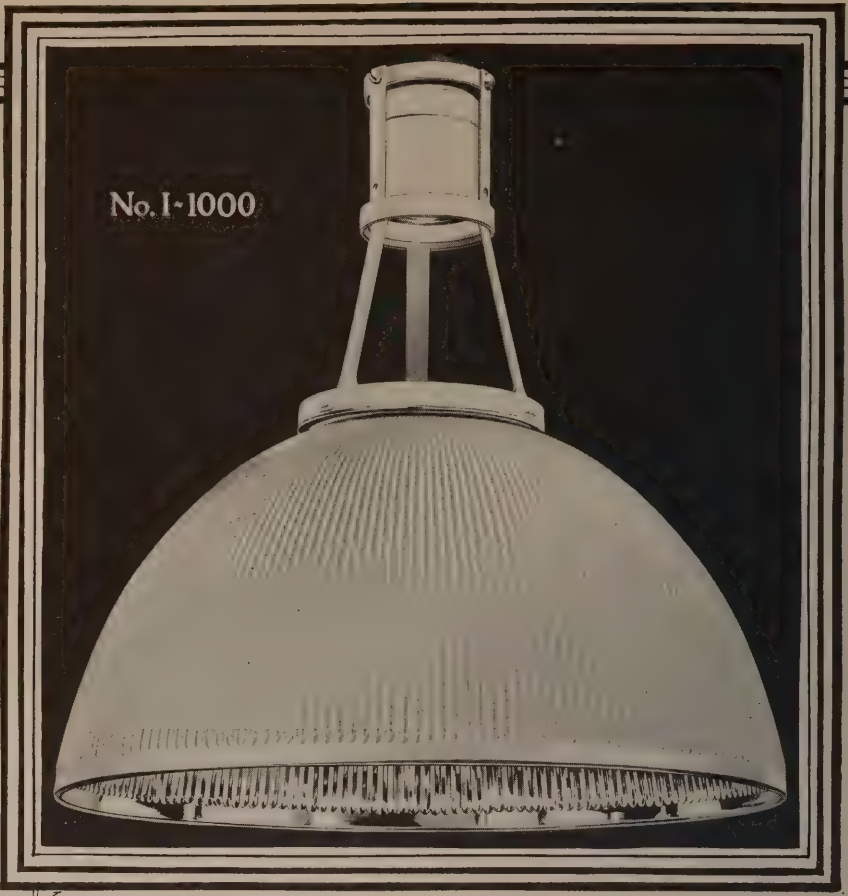
For High Industrial Interiors *and* Skylight Lighting



New "Pittsburgh" 1-1000

This reflector is one of a line of 43 "Pittsburgh" styles, to meet the various requirements of architects when dealing with illumination problems.

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Silver-plated glass is most efficient for such lighting, and this new No. 1-1000 has a contour that is highly practicable in this kind of service. It throws a very concentrated light. The open neck permits about 5 per cent of the light to escape to the ceiling.

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"Pittsburgh" reflectors are noted for their efficiency, brilliance and permanence of silvered reflecting surface —and assurance against need of replacement. Although "Pittsburgh" reflectors are guaranteed for five years against the following specific faults, of all the "Pittsburgh" reflectors made since August 1, 1916, not even one-hundredth of one per cent—not even one in 10,000—has ever been reported to us as having the silvered reflecting surface tarnish or discolor, or the backing crack, check or peel.

You should have in your files "Cove Lighting" (A.I.A. File No. 31f17) and "Show Window Lighting" (A.I.A. File No. 31f14). If not, we will gladly send them.

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This policy and practice enables the user of Holophane products often to realize twice the effective illumination from a given source—or conversely an equal illumination from half the energy consumed by other devices.

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The Shadow Chasers

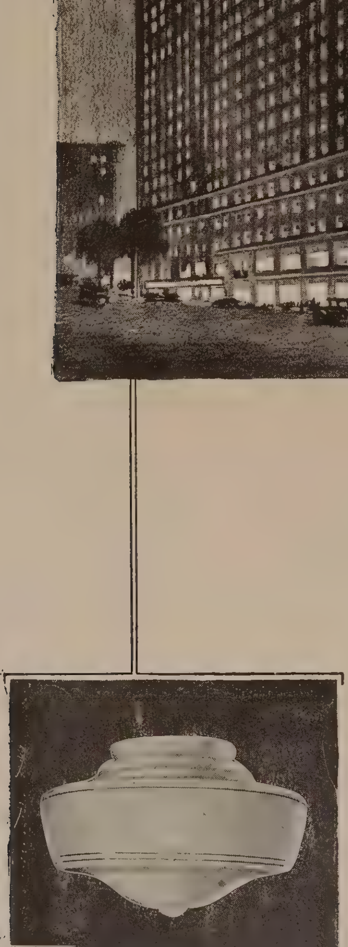
New Hotel Bismark, Chicago, C. W. & Geo. L. Rapp, Architects. Here lighting fixtures are equipped with Cremax Globes

Luxurious Lighting

VISITORS to the beautiful New Hotel Bismark in Chicago, on the occasion of its opening June 7th, experienced a delightful feeling of luxurious well-being. Casting about for the reason thereof, they noted, besides the comfortable furnishings, an abundance of soft, rich light emanating from chrome-tinted glass globes of unusual beauty.

The golden flood filled corridors and guest rooms, lighted their farthest corners, dispersed shadows. Yet there was not the slightest suggestion of glare. Eyes could gaze directly at the golden globes without the least discomfort. The secret of this gentle but abundant source of light is CREMAX GLOBES.

The illuminating Engineering Department of Macbeth-Evans Glass Company will gladly assist architects in the scientific arrangement of illumination for any type of structure. This cooperation is wholehearted and entails no obligation whatsoever. MACBETH-EVANS GLASS COMPANY *(Eastern Division)*, Dept. J, Charleroi, Pennsylvania.



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Cremax No. 5123, simple in design and decoration—used in the New Hotel Bismark, Chicago

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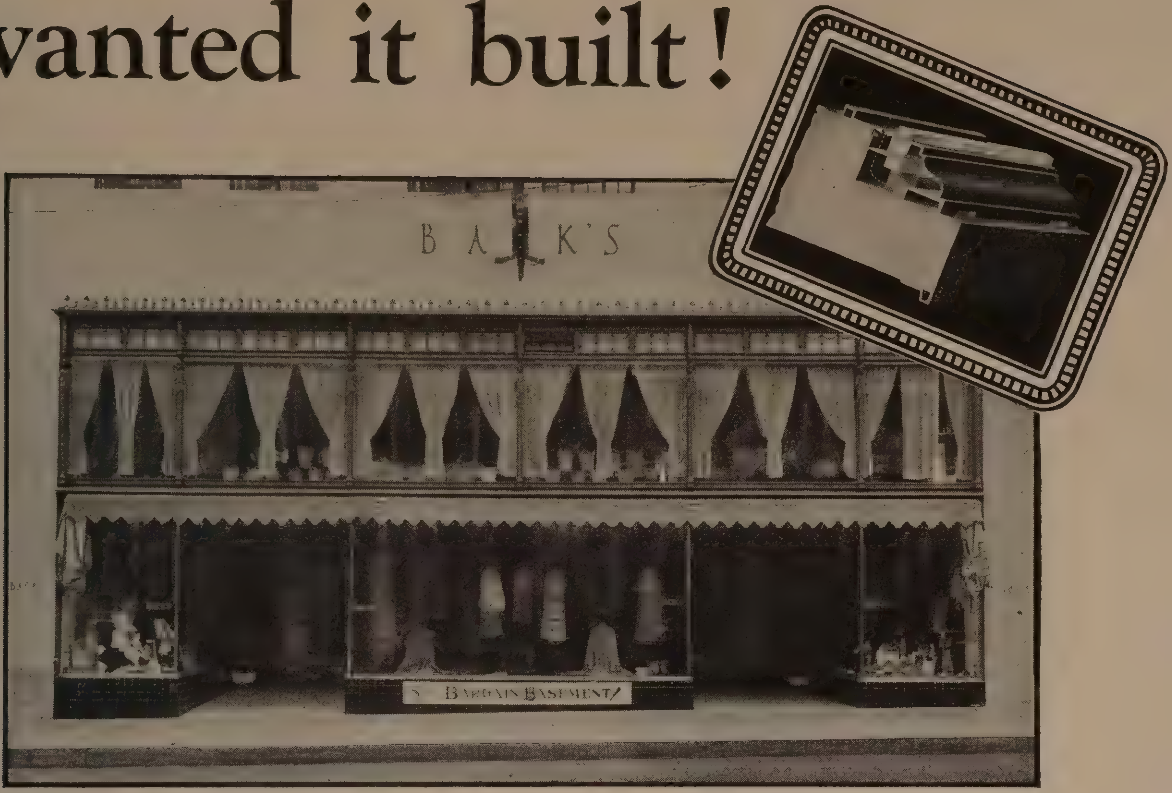

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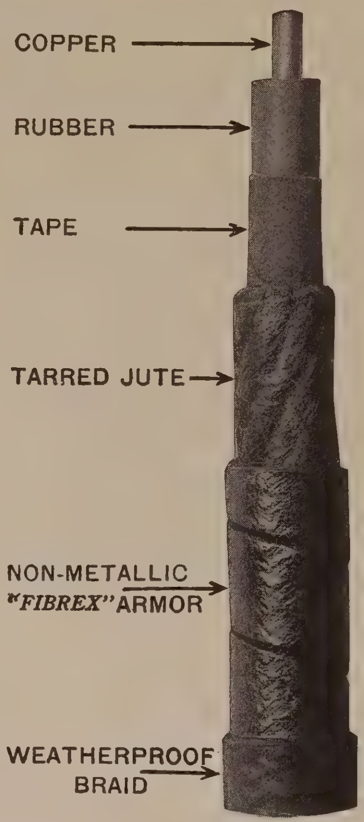

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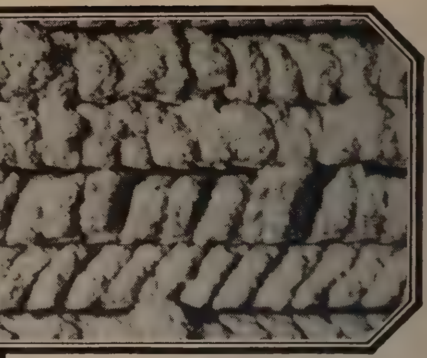

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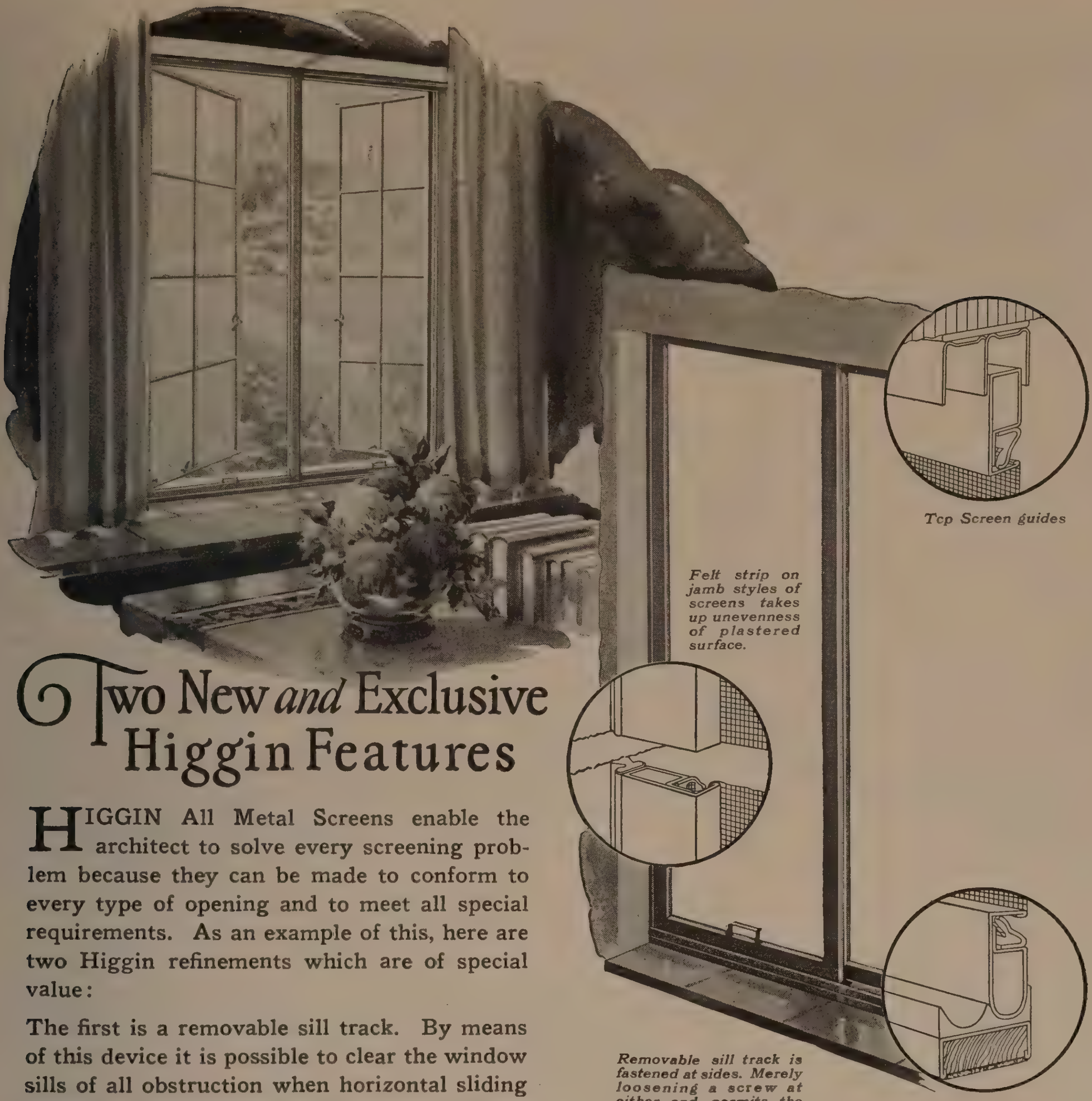
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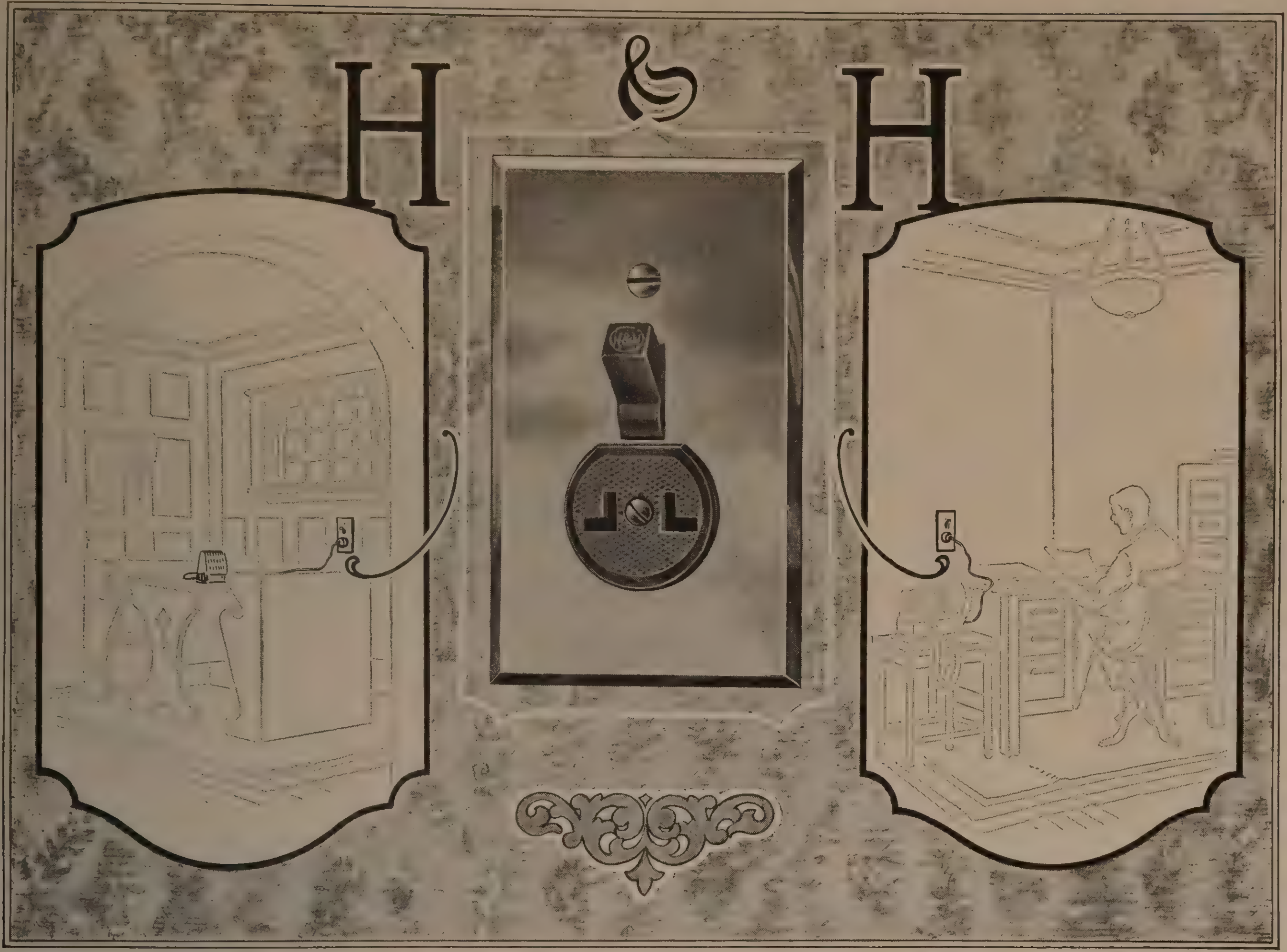

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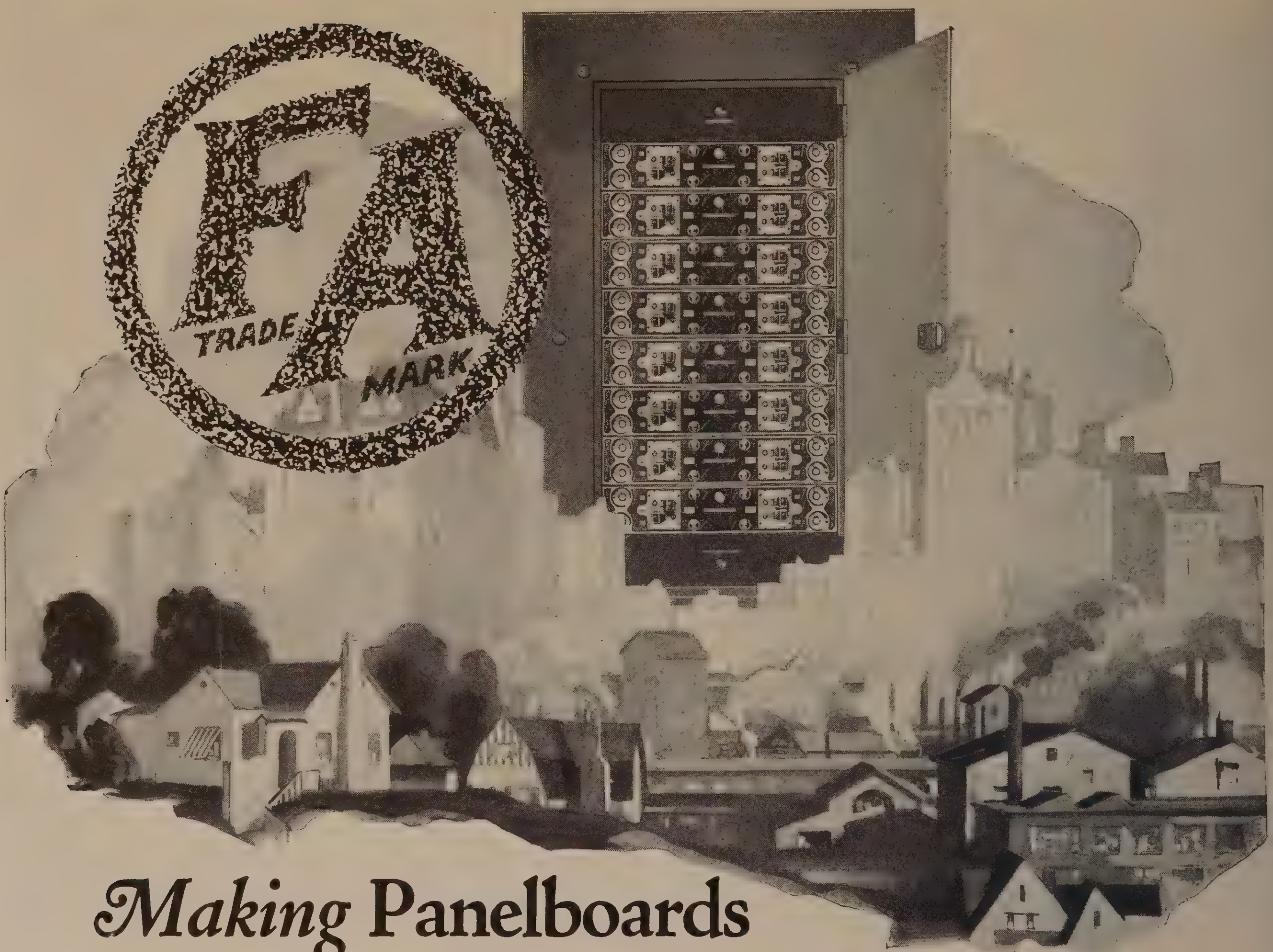

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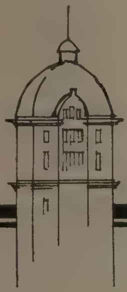

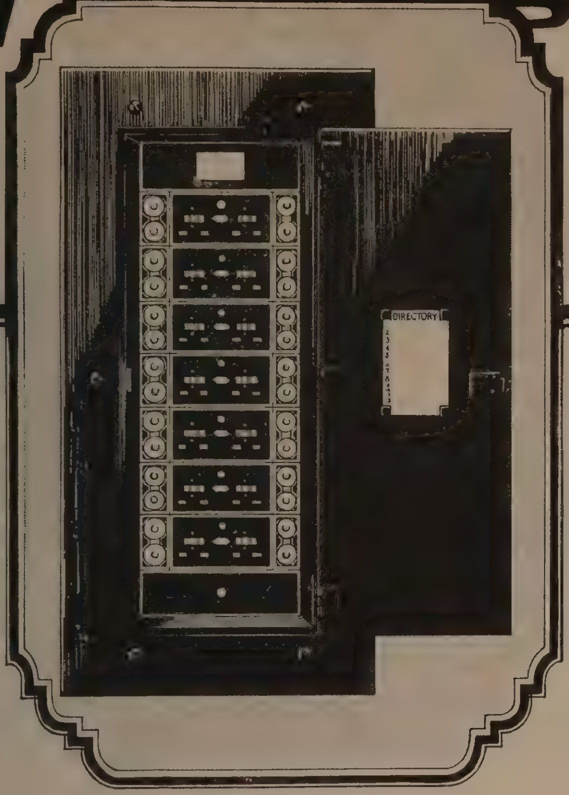

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Panelboard Section - Merchandising Department
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WRITE FOR OUR NEW PANELBOARD CATALOG

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The G&G REG. U.S. PAT. OFF. Telescopic Hoist with Automatic Gear Shifting Brake Device and Silencer

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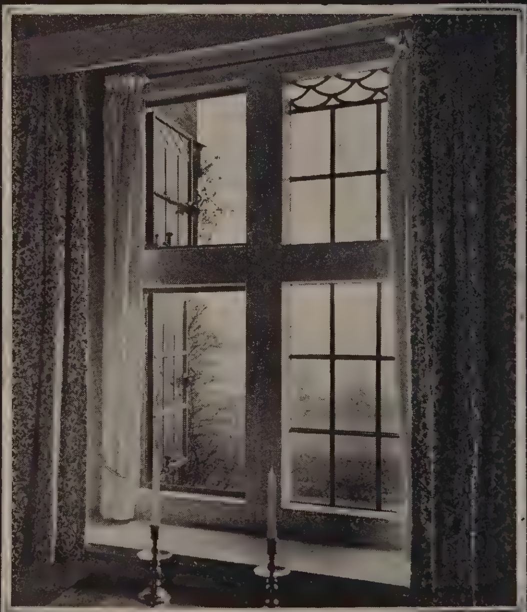

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OTIS
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For the highest class of Intensive Elevator Service

SIGNAL CONTROL provides automatic operation by means of buttons in the car and on the floors. The car buttons stop the car automatically at each floor for which they are pressed, the hall buttons stopping the car at the floor at which a waiting passenger has pressed the button. This operation is entirely automatic and the doors open automatically as soon as the car is stopped. When the door is closed the car starts automatically and stops at the next floor for which a button has been pressed.

MICRO DRIVE operation is provided on Signal Control Elevators, which feature automatically levels the car platform with the floor landing, and maintains that position irrespective of the stretch of ropes or change in load on the platform. This eliminates the stumbling hazard which is so frequent in passenger elevators where the cars are not properly leveled.

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SIGNAL CONTROL ELEVATORS are now operating at car speeds of 800 feet per minute.

OTIS ELEVATOR COMPANY

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OF THE WORLD

KNOWING WHEN TO SAY "NO"

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THE most valuable advice this House ever gave a prospective borrower — if we accept what he, himself, says — was when we said "No" to his proposal that we underwrite a certain bond issue, and, in fact, urged him to abandon the project altogether. Our refusal was based upon detailed study of the location, rental values and the type of structure proposed, backed by our 44 years of experience in passing upon properties offered as mortgage security. Subsequent developments verified the soundness of our judgment. Knowing when to say "No" was in that instance the most valuable service we had to offer.

* * *

We are always interested in making loans of $250,000 upward, either on completed buildings or structures to be built.

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Selected List of Manufacturers' Publications

FOR THE SERVICE OF ARCHITECTS, ENGINEERS, DECORATORS, AND CONTRACTORS

The publications listed in these columns are the most important of those issued by leading manufacturers identified with the building industry. They may be had without charge, unless otherwise noted, by applying on your business stationery to *The Architectural Forum*, 383 Madison Ave., New York, or the manufacturer direct, in which case kindly mention this publication.

ACOUSTICS

The Celotex Co., Chicago.

Acousti-Celotex. 16 pp., 8½ x 11 in. Illustrated brochure on a valuable material for facing walls and ceilings.

Specifications and Details for application and decoration of Acousti-Celotex, 11 pp., 8½ x 11 in.

John-Manville, Inc., Madison Ave. & 41st St., New York, N. Y.

Architectural Acoustics. Booklet. 6 x 9 in. 24 pp. Illustrated. Treatise on the correction of architectural acoustics in Churches, schools, hospitals, office buildings and other places.

U. S. Gypsum Co., 205 W. Monroe St., Chicago, Ill.

A Scientific Solution of an Old Architectural Problem. Folder 6 pp., 8½ x 11 in. Describes Sabinite Acoustical Plaster.

ASH HOISTS—ELECTRIC AND HAND POWER

Gillis & Geoghegan, 544 West Broadway, New York, N. Y.

General Catalog. 8½ x 11 in. 20 pp. Fully illustrated. Contains specifications in two forms (with manufacturers' name and without). Detail ¾ in. scale for each telescopic model and special material-handling section.

The Man-Saving Load Lifter. 5⅞ x 8⅞ in. 8 pp. Illustrated. Describes G&G Telescopic and Non-Telescopic Hoists for handling material in factories.

BOILERS—See Heating Equipment

BRICK

Acme Brick Company, Ft. Worth, Texas.

Series No. 1

Architectural designs rendered in Acme Brick. Booklet 11 x 8½ in. Illustrated. A series of 48 photogravures showing architectural designs rendered in Acme brick. Illustrations show the various types of buildings erected in the Southwest in recent years. Sent free to architects applying on their office stationery.

American Face Brick Association, 1751 Peoples Life Bldg., Chicago, Ill.

Architectural Details in Brickwork. Series One, Two and Three. Each series consists of an indexed folder case to fit standard vertical letter file, containing between 30 and 40 half-tones in brown ink on fine quality paper. These collections are inspiring aids to all designers. Sent free to architects who apply on their office stationery; to others, 50 cents for each series. Size 8½ x 11 in.

English Precedent for Modern Brickwork. A book of plates and measured drawings of Tudor and Gothic brickwork with a few recent variations of modern architects in the spirit of the old work. Price $2.00. 100 pp. Illustrated. 8½ x 11 in.

Brickwork in Italy. 298 pages size 7½ x 10½ in., an attractive and useful volume on the history and use of brick in Italy from ancient to modern times, profusely illustrated with 69 line drawings, 300 half-tones, and 20 colored plates with a map of modern and XII century Italy. Bound in linen will be sent postpaid upon receipt of $6.00. Half Morocco, seven dollars.

BUILDING FINANCE

S. W. Straus & Co., 565 Fifth Ave., New York, N. Y.

The Straus Plan of finance is an attractively prepared booklet of 30 pages 6 x 9 in. in size, which summarizes the plan under which S. W. Straus & Co. finance modern office building, apartment house, residential hotel and other types of construction. It is illustrated with sketches of buildings throughout the United States which secure bond issues purchased by S. W. Straus & Co.

BUILDING STONE—See Stone, Building

BUILDING, STANDARD STEEL

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Standard Building Catalog. 8½ x 11 in. 48 pp. Contains data and illustrations.

BUILDING, STEEL PRODUCTS FOR

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. 8½ x 11 in. Illustrated. Information descriptive of Massillon Bar Joist Permanent Fireproof Floor and Roof Construction, with cuts of typical installations. See classification "Steel Joists" for other publications intended for the architect designing this construction.

Massillon Metal Lath. Pamphlet. 8½ x 11 in. Illustrated. Includes tabulations and illustrations covering recommendations for the use of various weights and kinds of metal lath and lath accessories.

Massillon Roof Trusses. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Shows typical installations with 12 sizes of Standardized Curved Chord Steel Roof Trusses for spans of from 40 to 60 feet, together with details, dimensions, and safe loading tables.

Massillon Bank Vault Reinforcing. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Gives details of typical installations for a line of standardized steel vault reinforcing frames.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Data Book. Catalog. 3½ x 6 in. 128 pp. Illustrated. Contains complete information with illustrations on Truscon reinforcing steel, steel windows, metal lath, standard buildings, concrete inserts, steel joists, pressed steel stamping and chemical products.

CEMENT

Carney Company, The, Mankato, Minn.

What Twelve Men Said About Carney. Booklet, 8½ x 11 ins., Illustrated. Opinions of well known architects and builders of Carney Cement used for mortar.

Louisville Cement Co., 315 Guthrie St., Louisville, Ky.

BRIXMENT for Perfect Mortar. Self-filing handbook 8½ x 11 inches. 16 pp. Illustrated. Contains complete technical description of BRIXMENT for brick, tile and stone masonry, specifications, data and tests.

Sandusky Cement Co., Dept. F., Cleveland, Ohio.

Medusa White Portland Cement. Booklet, 8½ x 11 ins., 32 pp., Illustrated. Complete data on cement, plain and waterproofed.

CONCRETE BUILDING MATERIALS

Concrete Surface Corporation, 342 Madison Ave., New York.

Binding Surfaces on Concrete. Booklet, 12 pp., 8 x 11 in., illustrated. Deals with an important detail of building.

CONCRETE COLORINGS

A. C. Horn Company, Long Island City, N. Y.

Keramic Catalog. Booklet. 8½ x 11 in. 26 pp. A magnificent brochure, illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.

CONDUIT

Johns-Manville, Inc., New York.

Orangeburg Fibre Conduit. Booklet. 8½ x 11 in. 8 pp. Details regarding a valuable form of conduit.

Orangeburg System of Under Floor Duct. Booklet. 8½ x 11 in. 32 pp.

National Metal Molding Co., 1113 Fulton Building, Pittsburgh, Pa.

Bulletin of all National Metal Molding Products. In correspondence folder. 9½ x 11½ in.

Sheraduct. Circular. 5 x 8 in. Illustrated.

Flaxsteel. Circular. 5 x 8 in. Illustrated.

CONSTRUCTION, FIREPROOF

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Contains general information, with illustrations, regarding obtaining Permanent Fireproof Floor and Roof Construction by using Massillon Bar Joists. See classification "Steel Joists" for other publications intended for architects designing this construction.

Massillon Metal Lath. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Contains cuts, illustrations and recommendation for the use of various weights and kinds of metal lath for fireproofing columns, beams and steel joists.

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.

Standard Fire Proofing Bulletin 171. 8½ x 11 in. 32 pp. Illustrated. A treatise on fireproof floor construction.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.

Northwestern Expanded Metal Products. Booklet. 8½ x 10¾ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.

DAMPPROOFING

Philip Carey Co., Lockland, Cincinnati, Ohio.

Architects' Specifications for Carey Built-Up Roofing. Booklet. 8 x 10¾ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.

Carey Built-Up Roofing for Modern School Buildings. Booklet. 8 x 10¾ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

A. C. Horn Company, Long Island City, N. Y.

Waterproofing. 9½ x 11½ in. Folder. Contains folders giving data on excellent waterproofing and dampproofing materials.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York.

Specification Sheet, 8½ x 11 in. Descriptions and specifications of compounds for dampproofing interior and exterior surfaces.

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Paint. Complete and authoritative directions for use of an important line of materials.

DOORS AND TRIM, METAL

The American Brass Company, Waterbury, Conn.

Anaconda Architectural Bronze Extruded Shapes. Brochure, 180 pp., 8½ x 11 in., illustrating and describing more than 2,000 standard bronze shapes of cornices, jamb casings, mouldings, etc.

Art Metal Construction Co., Jamestown, N. Y.

Hollow Metal Doors and Trim. Portfolio containing several brochures and a catalog of 159 pages and plates 8⅝ x 11¼ in.

The Compound & Pyrono Door Company, St. Joseph, Mich.

Pyrono Handbook for Architects and Contractors. 8½ x 11 in. 16 pp. Contains full information regarding Pyrono Fireproof Veneered Doors and Trim, with complete details and specifications.

Pyrono details in sheet form for tracing.

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 135*

DOORS AND TRIM, METAL—Continued

Richards-Wilcox Mfg. Co., Aurora, Ill.
Fire Doors and Hardware, Booklet. 8½ x 11 in. 64 pp. Illustrated. Describes entire line of tin-clad and corrugated fire doors, complete with automatic closers, track hangers and all the latest equipment—all approved and labeled by Underwriters' Laboratories.

DUMBWAITERS

Sedgwick Machine Works, 151 West 15th St., New York.
Catalog and Service Sheets. Standard specifications, plans and prices for various types, etc. 4¾ x 8¼ in. 60 pp. Illustrated.

ELECTRICAL EQUIPMENT

Frank Adam Electric Company, St. Louis, Mo.
Catalog No. 35—1925. Panelboards—Steel Cabinets. 7¾ x 10½ in. 64 pp. Illustrates and describes sectionally built panelboards, an important line of steel cabinets, and the fittings which go with them.

Frink, Inc., I. P., 24th St. and 10th Ave., New York City.
Catalog 415. 8½ x 11 in. 46 pp. Photographs and scaled cross-sections. Specialized bank lighting, screen and partition reflectors, double and single desk reflectors and Polaralite Signs.

Hart & Hegeman Mfg. Co., The, 342 Capitol Ave., Hartford, Conn.
The Line of Least Resistance. Catalog R. 10½ x 7⅞ in. 152 pp. Illustrated. Complete display of switches, sockets, accessories and wiring devices with brief description.
A new H & H Switch. Leaflet. 3½ x 6 in. 4 pp. Illustrated. Illustrates a new H & H composition base push switch of De Luxe quality.
Tumbler Switches. Booklet. 3½ x 6 in. 6 pp. Illustrated. Shows complete line of H & H Tumbler Switches.
Architects' Handbook of H & H Wiring Devices. Booklet 8½ x 11 in. 16 pp. "Written by an Architect for Architects."
H. & H. Electrical Wiring Devices, Catalog S. 8½ x 10 in., 123 pp. Lists and illustrates details of equipment.

Holtzer-Cabot Electric Company, Armory Street, Boston 19, Mass.
Signalling Systems for Hospitals. Brochure. 8½ x 11 in. 42 pp. Illustrated. Contains complete data covering Nurse's Call, Doctor's Call, "In" and "Out" Fire Alarm, Watchman's Clock and Telephone Systems.
Bank signal and alarm systems. Brochure. 8½ x 11 in. 48 pp. Illustrated. An invaluable work on protective and other appliance for banks.

Kohler Co., Kohler, Wis.
Principle and Proof. Booklet. 48 pp. Illustrated. Describes a standard voltage automatic electric power and light plant for isolated homes, for emergency auxiliary or permanent lighting in stores, theaters, churches and schools.

Pick & Company, Albert, 208 West Randolph St., Chicago, Ill.
School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.
Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.
Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Simplex Wire & Cable Co., 201 Devonshire St., Boston, Mass.
Simplex Manual Catalog and Reference Book, 6¾ x 4¾ in. 92 pp. Contains in addition to information regarding Simplex products, tables and data for the ready reference of architects, electrical engineers and contractors.
Specification No. 2053. For Simcore Wires and Cables. Various sizes of Conductor-Rubber Insulation.

Western Electric Co., 195 Broadway, New York, N. Y.
Western Electric Inter-Phones for Apartment Houses. Booklet. 5¼ x 6¾ in. 16 pp. Illustrated. Illustrates and describes use if Inter-Phones in Apartment Houses.
Installing and Maintaining Western Electric Inter-Phones. In addition to giving general information on layout of system, details are supplied on individual Inter-Phone Systems, listing battery and wiring requirements.

ELEVATORS

Otis Elevator Company, 260 Eleventh Ave., New York, N. Y.
Otis Push Button Controlled Elevators. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.
Otis Geared and Gearless Traction Elevators of All Types. Descriptive leaflets. 8½ x 11 in. Illustrated. Full details of machines, motors and controllers for these types.
Escalators. Booklet. 8½ x 11 in. 22 pp. Illustrated. Describes use of escalators in subways, department stores, theaters and industrial buildings. Also includes elevators and dock elevators.

Richards-Wilcox Mfg. Co., Aurora, Ill.
Elevators. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes complete line of "Ideal" elevator door hardware and checking devices, also automatic safety devices.

Sedgwick Machine Works, 151 West 15th St., New York, N. Y.
Catalog and descriptive pamphlets, 4¼ x 8¾ in. 70 pp. Illustrated. Descriptive pamphlets on hand power freight elevators, sidewalk elevators, automobile elevators, etc.

ENAMELING

Toch Brothers, 110 East 42nd Street, New York City.
Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

FIRE DOORS—See Doors, Windows and Trim, Metal

FIREPROOFING—See also Construction, Fireproof

Concrete Engineering Co., Omaha, Nebr.
"Handbook of Fireproof Construction." Booklet, 53 pp., 8½ x 11 in. Valuable work on methods of fireproofing.

FIREPROOFING—Continued

The General Fireproofing Company, Youngstown, Ohio.
Fireproofing Handbook, 8½ x 11 in. 64 pp. Illustrated. Gives methods of construction, specifications, data on Herringbone metal lath, steel tile, Trussit solid partitions, steel lumber, self-centering formless concrete construction.

FLOOR HARDENERS (CHEMICAL)

Master Builders Company, Cleveland, Ohio.
Concrete Floor Treatments; Hardening, Dustproofing, Waterproofing. Sheets in loose index file, 9 x 12 in. Illustrated work on concrete hardening, coatings, accelerators and freeze proofers.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.
Lapidolith, the liquid chemical hardener. Complete sets of specifications for every building type in which concrete floors are used, with descriptions and results of tests.

FLOORING

Armstrong Cork & Insulation Co., 132 24th St., Pittsburgh, Pa.
Linotile Floors for Public and Semi-Public Buildings, 7½ x 10⅜ in. 36 pp.
Linotile Floors for Residences. 7½ x 10⅜ in. 32 pp.
Armstrong's Cork Tile. Revised Edition. Booklet. 24 pp. 5 x 7 in. Illustrated in color. Contains complete specifications.

Armstrong Cork & Insulation Co., Pittsburgh, Pa.
Armstrong's Cork Tile Floors. Booklet, 7¾ x 10½ in. 30 pp. An illustrated work on cork flooring.

Armstrong Cork Co. (Linoleum Division), Lancaster, Pa.
Armstrong's Linoleum Floors. Catalog. 8½ x 11 in. 36 pp. Color plates. A technical treatise on linoleum, including table of gauges and weights and specifications for installing linoleum floors.
Decorative Linoleum Floors. Portfolio of Color Plates. 11¼ x 15 in. 16 pp. Color plates.
Armstrong's Linoleum Pattern Book, 1925. Catalog. 3½ x 6 in. 200 pp. Color Plates. Reproduction in color of all patterns of linoleum and cork carpet in the Armstrong line.
Quality Sample Books. Two books, 3½ x 5¾ in. Showing all gauges and thicknesses in the Armstrong line of linoleums.
Detailed Directions for Laying and Caring for Linoleum. Handbook, 5 x 7 in. 48 pp. Instructions for linoleum layers and others interested in learning most satisfactory methods of laying and taking care of linoleum.
Business Floors. Booklet. 6 x 9 in. 48 pp. Illustrated in color. Explains use of linoleum for offices, stores, etc., with reproductions in color of suitable patterns, also specifications and instructions for laying.

Barber Asphalt Co., Philadelphia.
Specifications for Applying Genasco Asphalt Mastic. Booklet. 8 x 10½ in. Directions for using Asphalt Mastic for flooring.

Blabon Company, Geo. W., Nicetown, Philadelphia, Pa.
Planning the Color Schemes for Your Home. Brochure illustrated in color; 36 pp., 7½ x 10½ in. Gives excellent suggestions for use of color in flooring for houses and apartments.
Handy Quality Sample Folder of Linoleums. Gives actual samples of "Battleship Linoleum," cork carpet, "Feltex," etc.
Blabon's Linoleum. Booklet illustrated in color; 128 pp., 3½ x 8½ in. Gives patterns of a large number of linoleums.
Blabon's Plain Linoleum and Cork Carpet. Gives quality samples, 3 x 6 in. of various types of floor coverings.

Bonded Floors Company, Inc., 1421 Chestnut St., Philadelphia, Pa.
A series of booklets, with full color inserts showing standard colors and designs. Each booklet describes a resilient floor material as follows:
Battleship Linoleum. Explains the advantages and uses of this durable, economical material.
Marble-ized (Cork Composition) Tile. Complete information on cork-composition marble-ized tile and the many artistic effects obtainable with it.
Treadlite (Cork Composition) Tile. Shows a variety of colors and patterns of this adaptable cork composition flooring.
Natural Cork Tile. Description and color plates of this super-quiet, resilient floor.
Practical working specifications for installing battleship linoleum, cork composition tile and cork tile.

Carter Bloxonend Flooring Co., Keith & Perry Bldg., Kansas City, Mo.
Bloxonend Flooring. Booklet 3¼ x 6¾ in. 20 pp. Illustrated. Describes uses and adaptability of Bloxonend Flooring to concrete, wood or steel construction, and advantages over loose wood blocks.
File Folder, 9⅜ x 8⅝ in. For use in connection with A. I. A. system of filing. Contains detailed information on Bloxonend Flooring in condensed, loose-leaf form for specification writer and drafting room. Literature embodied in folder includes standard Specification Sheet covering the use of Bloxonend in general industrial service and Supplementary Specification Sheet No. 1, which gives detailed description and explanation of an approved method for installing Bloxonend in gymnasiums, armories, drill rooms and similar locations where maximum resiliency is required.

Duraflex Company, Inc., 11 Pleasant Street, Baltimore, Md.
Why They Used It in One of Boston's Finest Buildings.
Typical of Character of One of the 13 Original States.
Illustrated 4-page brochures, 5¼ x 8¾ in., giving data on "Duraflex" floors.
Permanent, Easy Tread Flooring. Folder. 4 pp. 8½ x 11 in. on floor covering material.
Specifications for Sub-Floors for "Duraflex." Folder. 11 pp. 8½ x 11 in. on base for laying "Duraflex."
Test of Floorings. Folder. 2 pp. Report of Flooring Committee of American Hospital Association.

Norton Company, Worcester, Mass.
Filing Folder. 8½ x 11¾ in. 27 pp. Illustrated with drawings. Specification data for architects.

LEFT—*Celotex Industrial Board is easily handled and quickly mopped. Any roofer can apply it.*

BELOW—*Plant of the Cinch Manufacturing Corporation, 2335 West Van Buren Street, Chicago. Carl Hauber, architect. Approximately 12,000 feet of Celotex Industrial Board applied as insulation over a wood deck. Jacobson Roofing Co. contractors.*

This roof insulation *most effective . . . strongest . . . easiest to apply*

Why Carl Hauber, Chicago, specifies Celotex Industrial Board

WHEN Mr. Hauber designed the industrial plant shown above for the Cinch Manufacturing Corporation, Chicago, he realized the many advantages and economies roof insulation could give his client.

He knew that the roof represents one of the largest yet least protected areas of such a building. That due to the tendency of heat to rise, the greatest heat-leakage is through the roof in winter, and that in summer the sun's heat beats through, unless insulation is used.

Effective . . .

So, "We decided to use Celotex Industrial Board for roof insulation on this building," Mr. Hauber writes. "We have found that this type of insulation would effectively stop heat and cold . . . would reduce heating costs materially . . . enable us to install a smaller heating plant . . . reduce the amount of radiation required . . . and add greatly to the comfort of the employees."

Other advantages which architects find in insulating with Celotex Industrial Board are: the elimination of ceiling condensation or sweating, important in buildings where high humidities prevail . . . and a reduction of dangerous expansion and contraction where concrete or metal roof decks are used. Celotex Industrial Board, made from firmly interlaced and felted cane fibre, has an extremely high insulating value. (Thermal conductivity 0.33 B.t.u. per hr., per sq. ft., per 1° F., per inch thickness.)

Strong . . .

Celotex Industrial Board also meets the important requirement of a firm, secure base to receive the roof covering. It is practically puncture-proof . . . safe from the damage traffic inflicts on less rigid materials. It is ideally adapted to ALL types of roof decks: concrete . . . steel . . . tile . . . wood . . . etc. Any standard roof covering may be applied over it.

Economical . . .

Another feature of Celotex Industrial Board is its economy. Mr. Hauber says, "It is the most satisfactory roof insulation we know from the standpoint of the ease and economy with which it is applied."

Any roofer can lay Celotex Industrial Board. It comes in boards 3′ x 6′ and approximately ½″ thick, that are easily handled and quickly mopped. No more material is required per mopping than for standard roofing felt.

Analyses will be made free of charge for any particular problem upon request. May we send you complete specifications and detail drawings of applications on all types of roof decks in A. I. A. file form?

THE CELOTEX COMPANY, Chicago, Ill.
Mills: New Orleans, La.
Branch Sales Offices in many principal cities
(See telephone books for addresses)
Canadian Representatives: Alexander Murray & Co., Ltd.
Montreal, Toronto, Halifax, Winnipeg, Vancouver

Other Celotex Products

Celotex Standard Building Board is used as insulation under plaster; as sheathing; and other *structural* purposes. Acousti-Celotex is a special form of Celotex used for acoustical correction and sound quieting. (Specifications and detail drawings free on request).

CELOTEX
INSULATING LUMBER
INDUSTRIAL BOARD

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 136*

FLOORING—Continued

Ritter Lumber Co., W. M., Columbus, Ohio.

Ritter Oak Flooring, brochure 5 x 7 in. 31 pp. Illustrated. Excellent data on floors of different kinds and of various woods.

Beauty Begins in the Forest.

Large illustrated folder on modern flooring.

U. S. Gypsum Co., Chicago.

Pyrobar Floor Tile. Folder. 8½ x 11 in. Illustrated. Data on building floors of hollow tile, and tables on floor loading.

U. S. Rubber Co., 1790 Broadway, New York.

Period Adaptations for Modern Floors. Brochure. 8 x 11 in. 60 pp. Richly illustrated. A valuable work on the use of rubber tile for flooring in interiors of different historic styles.

FOLDING PARTITIONS

Irving Hamlin, Evanston, Ill.

The Evanston Sound-Proof Door. Brochure. 8½ x 11 in. 8 pp. Full data on Hamlinized Folding Partitions and Evanston Sound-Proof Doors.

Wilson Corporation, J. G., 11 East 38th Street, New York, N. Y.

Sectionfold and Rolling Partitions and Hygienic School Wardrobes. Catalog No. 37. Booklet 8½ x 11 in. 40 pp. Illustrated. Describes the uses of rolling and sectional partitions, particularly in schools and churches. Also the installation of Wilson school wardrobes.

FURNACES—See Heating Equipment.

FURNITURE

American Seating Co., 14 E. Jackson Blvd., Chicago, Ill.

Ars Ecclesiastica Booklet. 6 x 9 in. 48 pp. Illustrations of church fitments in carved wood.

Theater Chairs. Booklet. 6 x 9 in. 48 pp. Illustrations of theater chairs.

Kensington Mfg. Company, Showrooms, 41 west 45th St., New York.

Illustrated booklet indicative of the scope, character and decorative quality of Kensington Furniture, with plan of co-operation with architects, sent on request.

Photographs and full description of hand-made furniture in all the period styles, furnished in response to a specific inquiry.

White Door Bed Company, The, 130 North Wells Street, Chicago, Ill.

Booklet. 8½ x 11 in. 20 pp. Illustrated. Describes and illustrates the use of "White" Door Bed and other space-saving devices.

GARDEN ACCESSORIES

Davey Tree Expert Company, The, 907 Elm St., Kent, Ohio.

When Your Trees Need The Tree Surgeon. Booklet. 16 pp. 8 x 9¼ in. Illustrated. Lists and explains a number of serious tree troubles of common occurrence; contrasts the scientific methods used by properly trained and conscientious men to remedy these troubles with the work of unscrupulous or untrained men.

GLASS CONSTRUCTION

Mississippi Wire Glass, 220 Fifth Avenue, New York.

Mississippi Wire Glass. Catalog. 3⅞ x 8½ in. 32 pp. Illustrated. Covers the complete line.

GRANITE—See Stone, Building

GRATINGS

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.

What a Difference Three Locks Make. Folder. 4 pp., 8½ x 11 ins. Deals with a means of holding slender members of metal in accurate alignment.

GRILLES

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.

What a Difference Three Locks Make. Folder. 4 pp., 8½ x 11 ins. Deals with a means of holding slender members of metal in accurate alignment.

Wickwire Spencer Steel Co., Inc., 41 East 42nd St., New York.

Clinton Grilles. Booklet. 9 x 11 in. 12 pp. A brochure on metal grilles, particularly for use over heating radiators.

HARDWARE

Cutler Mail Chute Company, Rochester, N. Y.

Cutler Mail Chute Model F. Booklet. 4 x 9¼ in. 8 pp. Illustrated.

McKinney Mfg. Co., Pittsburgh, Pa.

McKinney Complete Garage Hardware Sets. Catalog. 6¾ x 10 in. 20 pp. Illustrated. Describes full line of complete garage hardware sets for all kinds of entrances, with views of typical entrances and sketches.

McKinney Hinges and Butts. General Catalog. 6¾ x 10 in. Illustrates and describes complete line of McKinney wrought builders' hardware products, including hinges, butts, door hangers and track, latches, garage hardware and specialties.

Richards-Wilcox Mfg. Co., Aurora, Ill.

Distinctive Garage Door Hardware. Booklet. 8½ x 11 in. 65 pp. Illustrated. Complete information accompanied by data and illustrations on different kinds of garage door hardware.

Sargent & Company, New Haven, Conn.

Details to Which Standard Hardware Can Be Applied. Booklet. 6 pp. 9 x 12 in. Illustrated. Treats with diagrams, portions of doors and windows to which hardware can be applied.

Sargent Locks and Hardware. Bound volume, 534 pp., 9 x 12 in., illustrated. Complete catalog of Sargent line of hardware.

HEATING EQUIPMENT

American Radiator Company, The, 40 West 40th St., N. Y. C.

Ideal Type "A" Heat Machine. Catalog 7¾ x 10½ in. 32 pp. Illustrated in 4 colors. A brochure of high-efficiency heating apparatus for residences and commercial buildings.

Ideal Water Tube Boilers. Catalog 7¾ x 10⅝. 32 pp. Illustrated in 4 colors. Data on a complete line of Heating Boilers of the Water Tube type.

Ideal Smokeless Boilers. Catalog 7¾ x 10½ in. 32 pp. Illustrated in 4 colors. Fully explains a boiler free from the objection of causing smoke.

Ideal Boilers for Oil Burning. Catalog 5½ x 8½ in. 36 pp. Illustrated in 4 colors. Describing a line of Heating Boilers especially adapted to use with Oil Burners.

HEATING EQUIPMENT—Continued

Corto—The Radiator Classic. Brochure 5½ x 8½ in. 16 pp. Illustrated. A brochure on a space-saving radiator of beauty and high efficiency.

Ideal Arcola Radiator Warmth. Brochure 6¼ x 9¼. Illustrated. Describes a central all-on-one-floor heating plant with radiators for small residences, stores, and offices.

James B. Clow & Sons, 534 S. Franklin St., Chicago, Ill.

Gasteam. Catalog. 6 x 9 in. 16 pp. Illustrated. New radiator using gas for fuel.

C. A. Dunham Company, 450 East Ohio Street, Chicago, Ill.

Dunham Radiator Trap. Bulletin 101. 8 x 11 in. 12 pp. Illustrated. Explains working of this detail of heating apparatus.

Dunham Packless Radiator Valves. Bulletin 104. 8 x 11 in. 8 pp. Illustrated. A valuable brochure on valves.

Dunham Return Heating System. Bulletin 109. 8 x 11 in. Illustrated. Covers the use of heating apparatus of this kind.

Dunham Vacuum Heating System. Bulletin 110. 8 x 11 in. 12 pp. Illustrated.

Excelso Specialty Works, 119 Clinton St., Buffalo, N. Y.

Excelso Water Heater. Booklet. 12 pp. 3 x 6 in. Illustrated. Describing the new Excelso method of generating domestic hot water in connection with heating boilers. (Firepot Coil eliminated.)

The Fulton Company, Knoxville, Tenn.

Sylphon, Temperature Regulators. Bulletin T-103. 8½ x 11 in. 16 pp. Complete data on Sylphon temperature regulators for air and liquids. Catalog 100, complete line Sylphon Heating Specialties.

Damper Regulators. Air and Vent Valves. Catalog No. 100. 3¾ x 6¼ in. Sylphon Damper Regulators for steam, hot water and vapor systems. Sylphon Air and Vent Valves.

Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.

Vapor Heat Bulletin 21. 8½ x 11 in. 32 pp. Illustrated. Contains new and original data on Vapor Heating. Rules for computing radiation, pipe sizes, radiator tappings. Steam table showing temperature of steam and vapor at various pressures, also description of Illinois Vapor Specialties.

International Heater Company, Utica, N. Y.

International Economy Blue Front Warm Air Furnace. Brochure, 23 pp., 7½ x 10⅝ in. A valuable publication dealing with an important type of heating.

International Carton Self Cleaning Warm Air Furnaces. Booklet, 31 pp., 7½ x 10⅝ in. Illustrated. Complete data on warm air heating.

International Economy Boilers. Booklet, 36 pp., 7½ x 19⅝ ins. Deals with the vital matter of boilers.

International Economy Smokeless Boilers. Brochure, 40 pp., 7½ x 10⅝ ins. Illustrated. Discusses an important type of smokeless boiler.

International Hot Water Supply Boilers. Booklet, 8 pp., 7½ x 10⅝ ins. Data regarding boilers for supplying hot water.

Johnson Service Company, 149 Michigan St., Milwaukee, Wis.

Regulation of Temperature and Humidity. Booklet. 11¼ x 8½ in. 64 pp. Illustrated. Describes Johnson system of pneumatic automatic regulation of temperature and humidity, and illustrates thermostats, valves, air compressors, dampers and other parts.

Johnson Electric Thermostats, Valves and Controllers. Booklet. 6⅛ x 3½ in. 24 pp. Illustrated. Excellent plates showing electric thermostats and controllers.

Kelsey Heating Company, James St., Syracuse, N. Y.

Booklet No. 5, 4 x 9 in. 32 pp. Illustrated. A dealers' booklet showing the Kelsey Warm Air Generator Method of warming and distributing air. Gives dimensions, heating capacities, weights, kind of coal recommended and shows the mechanical and gravity systems of heating homes, churches and schools.

Monroe Pipeless Booklet, 4½ x 8 in. 20 pp. Illustrated.

Monroe Tubular Heater. Booklet. 4½ x 8 in. 20 pp. Illustrated. General Booklet giving capacities, dimensions, weights, etc.

Syracuse Pipeless Booklet. 4½ x 8 in. 12 pp. Illustrated. General Booklet giving sizes and capacities.

Kewanee Boiler Co., Kewanee, Ill.

Kewanee on the Job. Catalog. 8½ x 11 in. 80 pp. Illustrated. Showing installations of Kewanee boilers, water heaters, radiators, etc.

Catalog No. 78, 6 x 9 in. Illustrated. Describes Kewanee Firebox Boilers with specifications and setting plans.

Catalog No. 79. 6 x 9 in. Illustrated. Describes Kewanee power boilers and smokeless tubular boilers with specifications.

Mueller Co., Decatur, Ill.

Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.

Nash Engineering Company, South Norwalk, Conn.

No. 37. Devoted to Jennings Hytor Return Line Vacuum Heating Pumps, electrically driven, and supplied in standard sizes up to 300,000 square feet equivalent direct radiation.

No. 16. Dealing with Jennings Hytor Air Line Heating Pumps.

No. 17. Describing Jennings Hytor Condensation Pumps, sizes up to 70,000 square feet equivalent direct radiation.

No. 25. Illustrating Jennings Return Line Vacuum Heating Pumps. Size M, for equivalent direct radiation up to 5,000 square feet.

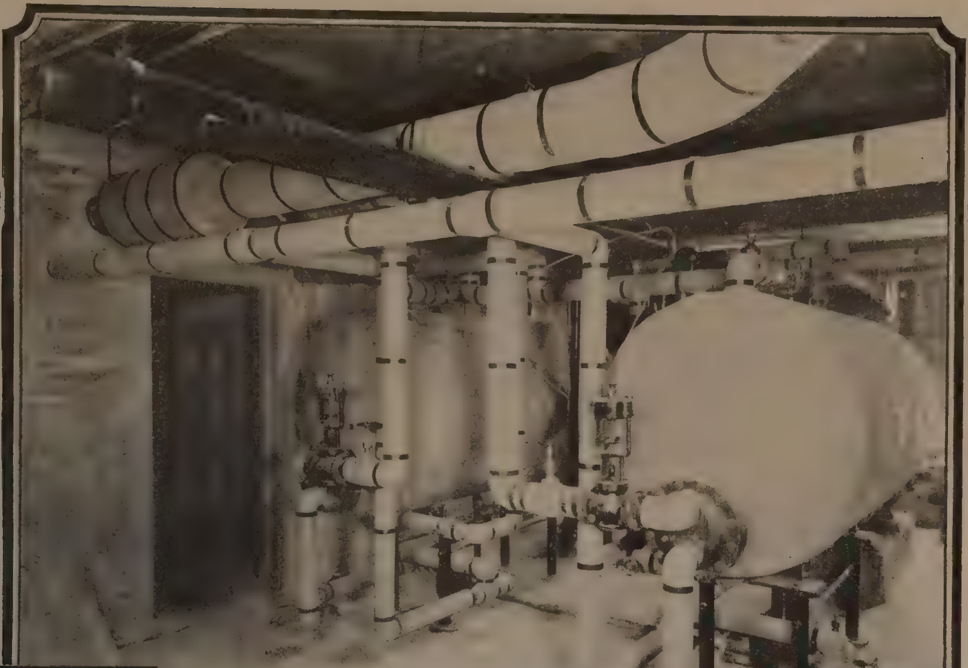
National Radiator Company, Johnstown, Pa.

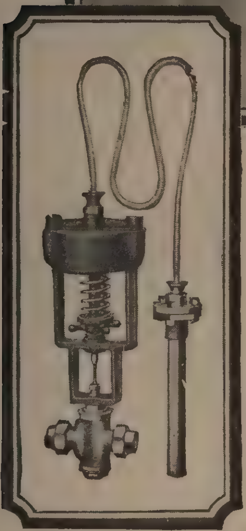
Aero Radiators; Beauty and Worth. Catalog 34. Booklet 6 x 9 in., 20 pp., describing and illustrating radiators and accessories.

Peerless Unit Ventilation Company, Inc., Long Island City, N. Y.

Peerless Industrial Heating Unit. Folder 6 x 9 in. Deals specifically with heating industrial structures.

Peer Vent Heating and Ventilating Unit. Brochure, 6 x 6½ in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.





Two 2-inch No. 931 Sylphon Regulators on service hot water heaters of the Camden County Tuberculosis Hospital, Asyla, N. J.
Mr. Arnold H. Moses, Architect
Mr. Frank H. Schaeffer, Cons. Engr.
Camden Heating Company, Contractors
This hospital is heated by the Webster Vacuum System of Steam Heating.

Another Hospital with Sylphon Automatic Control of Service Hot Water

Sylphon Temperature Regulators meet the exacting demands of the modern hospital for plenty of hot water—not too hot—not too cool. They automatically maintain a steady supply of hot water at the right temperature without attention, and without repairs—not only in hospitals, but in every other type of building where service hot water is required.

Easy to install—because they have no outside accessories of any kind, and require no auxiliary power, Sylphon Regulators guarantee completely satisfactory control of hot water systems with a minimum consumption of steam.

Specify Sylphon Temperature Regulators for all your service hot water requirements, large or small.

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This can be done hundreds of thousands of times—
AND NO APPRECIABLE LOSS OF FLEXIBILITY WILL DEVELOP IN THE ALL METAL, SEAMLESS SYLPHON BELLOWS
Sylphon

The secret of economical and reliable automatic temperature control is the Sylphon Bellows, which is the motor element in every Sylphon Regulator. This bellows, drawn and formed seamless, is the most accurate, flexible and durable expansion unit known.

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Sales Offices in: NEW YORK, CHICAGO, DETROIT, BOSTON, PHILADELPHIA, *and all the principal cities in U. S.*
European representatives: Crosby Valve & Engineering Co., Ltd., 41-42 Foley Street, London, W. I., England
Canadian representatives: Darling Bros., Ltd., 120 Prince Street, Montreal, Canada

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 138*

HEATING EQUIPMENT—Continued

Trane Co., The, La Crosse, Wis.

Bulletin 14. 16 pp. 8½ x 10⅝ in. Cover the complete line of Trane Heating Specialties, including Trane Bellows Traps, and Trane Bellows Packless Valves.

Bulletin 20. 24 pp. 8½ x 10⅝ in. Explains in detail the operation and construction of Trane Condensation. Vacuum, Booster, Circulating, and similar pumps.

Utica Heater Company, Utica, N. Y.

Imperial Round and Square Boilers and Supplies. Catalog. 3½ x 6½ in. Gives complete data on small heaters.

Special Folders. 8½ x 11 in. "Warmth and Comfort," describing the scientifically correct NEW IDEA pipeless furnaces. "SUPERIOR Warm Air Pipe Furnaces," a standard line of heating equipment for over forty years. "SUPER-SMOKELESS Pipe and Pipeless Furnaces," a new and remarkably efficient warm air heater, burning cheap soft coal without smoke—utilizing the principle of the Bunsen Burner.

Utica Imperial SUPER-SMOKELESS Boiler. Catalog. 8½ x 11 in. Consists of the following seven bulletins, either loose or bound together: (1) School Heating Bulletin. (2) Public Building Bulletin. (3) Theater Heating Bulletin. (4) Churches and Religious Institutions. (5) Residences, Apartments and Hotels. (6) Offices, Industrial Buildings and Garages. (7) Technical Bulletin describing patented Bunsen Burner design and construction of the SUPER-SMOKELESS BOILER, which burns the cheapest grades of soft coal smokelessly and operates equally well with hard coal, coke or fuel oil.

HEAT REGULATORS—See Heating Equipment

HOISTS—See Ash Hoists

HOLLOW TILE—See Tile, Hollow

HOSPITAL EQUIPMENT

The International Nickel Company, 67 Wall St., New York, N. Y.

Hospital Applications of Monel Metal. Booklet. 8½ x 11½ in. 16 pp. Illustrated. Gives types of equipment in which Monel Metal is used, reasons for its adoption, with sources of such equipment.

The Kny-Scheerer Corporation of America, 119 Seventh Ave., New York.

Hospital Equipment, 16th Edition. 7¼ x 10½ in. 232 pp. Illustrated. Complete description of Hospital and Surgical Furniture, Hospital Appliances including Operating Tables, Cabinets, Sterilizers for Water, Dressing and Instruments, also Hydrotherapeutic Apparatus.

Surgical Sundries. Second Edition. Booklet. 7⅜ x 10½ in. 48 pp. Illustrated. A complete line of glassware, enamelware, rubber goods, restraint apparatus, instrument sterilizers, sputum cups, wheel chairs and sick room comforts.

Electro Medical. 25th Edition. Booklet. 7¼ x 10½ in. 160 pp. Illustrated. A complete line of Albee Bone Sets. Apparatus for AC and DC Cystocopes, Heat Magnets, Vibrators, Compressors, Electric Light Baths, High Frequency Apparatus and X-Ray Apparatus and Accessories.

INCINERATORS

Goder Incinerator Corporation, 323 North Michigan Ave., Chicago, Illinois.

"Goder Incinerators" Booklet. 8½ x 11 in. 16 pp. Illustrated. Describes the Goder Principle of Waste Disposal, illustrates the various designs and models, shows photos of actual installations.

"Goder Chimney Fed Incinerators." Booklet 8 pp. 8½ x 11 in. Illustrated. Describes chimney fed types of incinerator. Shows various designs and photos of installations. Gives specifications, also showing construction plans and details.

"The Garbage Hog." Folder 8½ x 11 in. 4 pp. Describes their portable Incinerator, with diagrams.

Kerner Incinerator Company, 715 E. Water St., Milwaukee, Wis.

Incinerators (Chimney-fed) Catalog No. 15 (Architect and Builders' Edition). Size 8½ x 11 in., 16 pp. Illustrated. Describes principle and design of Kernerator Chimney-fed Incinerators for residences, apartments, hospitals, schools, apartment hotels, clubs and other buildings. Shows all standard models and gives general information and working data.

Sanitary Elimination of Household Waste, booklet, 4 x 9 in., 16 pp., Illustrated. Gives complete information on the Kernerator for residences.

Garbage and Waste Disposal for Apartment Buildings, folder, 8½ x 11 in., 8 pp. Illustrated. Describes principle and design of Kernerator-Chimney-fed Incinerator for apartments and gives list of buildings where it has been installed.

Sanitary Disposal of Waste in Hospitals, booklet. 4 x 9 in., 12 pp. Illustrated. Shows how this necessary part of hospital service is taken care of with the Kernerator. Gives list of hospitals where installed.

INSULATING LUMBER

Mason Fibre Co., 111 West Washington St., Chicago, Ill.

Booklet, 12 pp., 8½ x 11 in. Illustrated. Gives complete specifications for use of insulating lumber and details of construction involving its use.

INSULATION

Armstrong Cork & Insulation Co., Pittsburgh, Pa.

Corkboard Insulation. Brochure. 6¼ x 9¼ in. Illustrated. Fully discusses properties of corkboard and its uses in insulation of cold storage rooms, refrigerators, residences, apartment houses.

The Insulation of Roofs with Armstrong's Corkboard. Booklet. Illustrated. 7½ x 10½ in. 32 pp. Discusses means of insulating roofs of manufacturing or commercial structures.

Insulation of Roofs to Prevent Condensation. Illustrated booklet. 7½ x 10½ in. 36 pp. Gives full data on valuable line of roof insulation.

Filing Folder for Pipe Covering Data. Made in accordance with A. I. A. rules.

"The Cork Lined House Makes a Comfortable Home." 5 x 7 in. 32 pp. Illustrated.

INSULATION—Continued

Cabot, Inc., Samuel, Boston, Mass.

Cabot's Insulating Quilt. Booklet, 7½ x 10½ ins., 24 pp., Illustrated. Deals with a valuable type of insulation.

Johns-Manville, Inc., New York.

Johns-Manville Service to Industry. Bound Volume. 260 pp. 8 x 11 in. Deals with Asbestos Roofings, Heat and Electrical Insulations. Waterproofing, and Industrial Flooring.

A Representation Installation of the Johns-Manville Underground System of Insulation. Booklet. 20 pp., 8½ x 11 in.

Philip Carey Co., The, Cincinnati, Ohio.

Carey Asbestos and Magnesia Products. Catalog. 6 x 9 in. 72 pp. Illustrated.

Celotex Company, The, 645 N. Michigan Ave., Chicago, Ill.

The Hidden Comfort of Costly Homes. Booklet 8½ x 11 in.

Celotex Specifications. Booklet 8½ x 11 in.

Johns-Manville, Inc., Madison Ave. and 41st St., New York, N. Y.

Johns-Manville Service to Power Users. Catalog. 8½ x 11 in. 150 pp. Illustrated. Contains valuable data on all forms of insulation, packages, steam traps, high temperature cements, brake locks and linings, also general technical data.

United States Mineral Wool Co., 280 Madison Ave, New York.

The Uses of Mineral Wool in Architecture. Booklet 4¼ x 6⅝ in. 24 pp. Illustrated. Describes properties of mineral wool as insulation against heat, frost, sound. Specifications and section drawing for use as a fireproofing. Rules for estimate and cost.

KITCHEN EQUIPMENT

Standard Gas Equipment Corporation, 18-20 East 41st Street, New York, N. Y.

VULCAN Gas Ranges and Appliances. Booklet. 5 x 8 in. 50 pp. Illustrated. Describes complete line, including VULCAN SMOOTH TOP Compact Cabinet Gas Ranges for kitchens in the home.

VULCAN Gas Equipment for Hotels, Hospitals, Restaurants, etc. Booklet, 5 x 8 in. 45 pp. Illustrated. Equipment for heavyduty cooking requirements, with information of value to architects in planning kitchens.

The International Nickel Company, 67 Wall St., New York, N. Y.

Hotels, Restaurants and Cafeteria Applications of Monel Metal. Booklet. 8½ x 11 in. 32 pp. Illustrated. Gives types of equipment in which Monel Metal is used, with service data and sources of equipment.

Mueller Co., Decatur, Ill.

Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.

Pick & Company, Albert, 208 W. Randolph St., Chicago, Ill.

School Cafeteria. Portfolio. 17 x 11 in. 44 pp. Illustrated. An exhaustive study of the problems of school feeding, with copious illustrations and blue prints. Very valuable to the architect.

School Cafeterias. Booklet. 9 x 6 in. Illustrated. The design and equipment of school cafeterias with photographs of installation and plans for standardized outfits.

Kitchen Equipment. Booklet. 9 x 6 in. Illustrated. Photographs and descriptions of Hotel, Club and Hospital kitchens with treatise on plans and equipment of efficient kitchens.

Electric Kitchen Equipment. Booklet. 8½ x 11½ in. Illustrated. Photographs and descriptions of PIX "Master-Made" ranges, ovens, etc., for Hotels and Restaurants.

Hotel, Apartment Building, Club and Institution Installations. Portfolio. 17 x 11 in. 100 pp. Shows, mostly by plates, how the Albert Pick Company equips hotels completely from top to bottom.

Equipment for Cafeterias, Lunch Rooms, Restaurants, and Dining Rooms. Portfolio. 17 x 11 in. 86 pp. Illustrated. The last word in Cafeteria equipment to meet all requirements.

LABORATORY EQUIPMENT

Alberene Stone Co., 153 West 23rd Street, New York City

Booklet 8¾ x 11¼ in., 26 pp. Stone for laboratory equipment, shower partitions, stair treads, etc.

Duriron Company, Dayton, Ohio.

Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

Kewaunee Manufacturing Company, 141 Lincoln St., Kewaunee, Wis.

Kewaunee Book of Laboratory Furniture. Catalog. 7 x 10 in. 408 pp. Illustrated. Science and Vocational Laboratory Furniture for schools, colleges, technical institutes, hospitals, etc., including floor plans, illustrations of buildings and equipped laboratories, illustrations of equipment engineering data for mechanical ventilation and illustrations of special plumbing fixtures for laboratory use. A supplement is also issued for this work.

LANTERNS

Todhunter, Arthur, 414 Madison Ave., New York.

Hand Wrought Lanterns. Booklet. 5¼ x 6¼ in. 20 pp. Illustrated in Black and White. With price list. Lanterns appropriate for exterior and interior use, designed from old models and meeting the requirements of modern lighting.

LATH, METAL AND REINFORCING

The General Fireproofing Company, Youngstown, Ohio

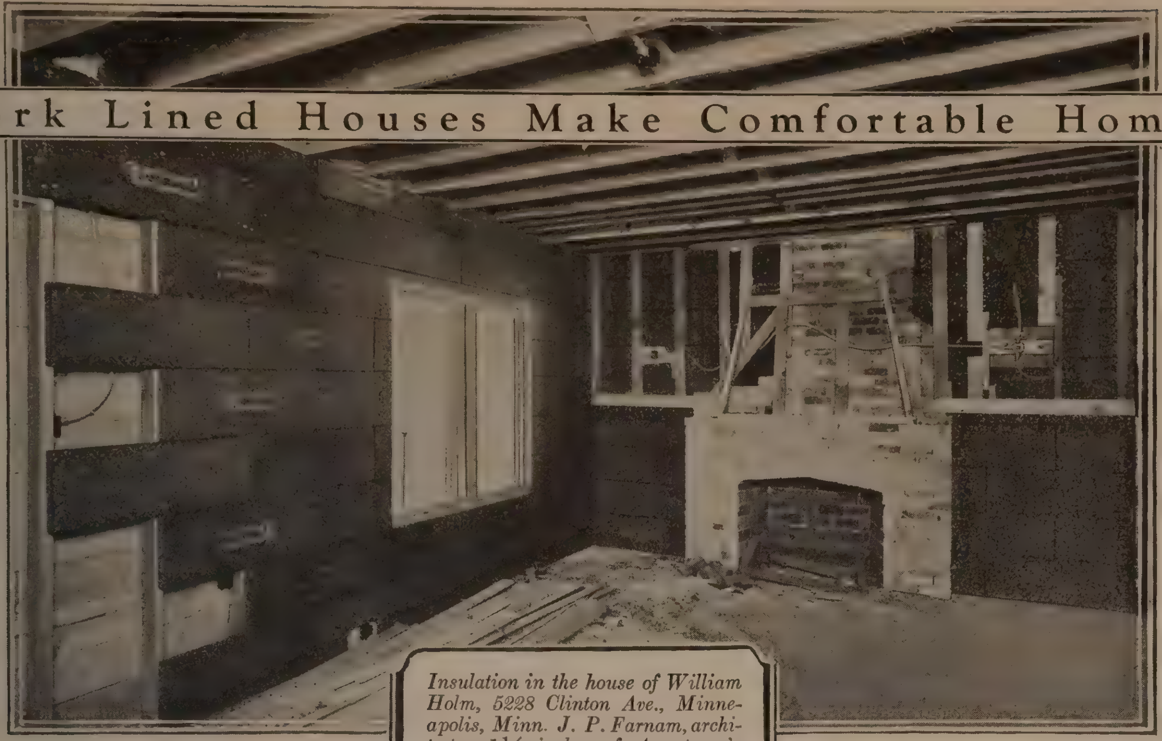
Herringbone Metal Lath Handbook. 8½ x 11 in. 32 pp. Illustrated. Standard specifications for Cement Stucco on Herringbone.

Rigid Metal Lath and interior plastering.

Massillon Steel Joist Co., Canton, Ohio.

Massillon Metal Lath. Pamphlet. 8½ x 11 in., 8 pp., illustrated. Covers entire line of Diamond Flat Mesh Lath, ⅜-in. and ¾-in. Rib Lath,—complete line of 16-gauge channels, box channels, pencil channels, base and corner beads, tie wire and hanger wire.

Cork Lined Houses Make Comfortable Homes



Insulation in the house of William Holm, 5228 Clinton Ave., Minneapolis, Minn. J. P. Farnam, architect. 1½ inches of Armstrong's Corkboard was used on the walls and 2 inches on the roof.

Armstrong's Corkboard is Economical to Erect in Any Type of Construction

ONE of the outstanding features of Armstrong's Corkboard house insulation is the ease and economy of erection in any type of construction—frame, veneer, brick, hollow tile, concrete or stone.

In frame and veneer houses, the corkboard is simply nailed to studding and rafters; in masonry construction, it is laid up in a backing of Portland cement.

Armstrong's Corkboard is made in convenient sizes for easy handling—12 x 32 inches for frame or 12 x 36 inches for masonry, and in thicknesses of one to three inches to give adequate insulation in a single layer.

Any standard house plaster can be applied directly on the corkboard without lath. Armstrong's Corkboard provides a bond that is strong and permanent, and being nonabsorbent of moisture, it does not warp, swell, or shrink. Furthermore, Armstrong's Corkboard is fire-retarding and will not ignite from sparks or embers, nor will it carry fire.

A new Architect's Specification File containing complete data on the use of Armstrong's Corkboard for the insulation of walls and roofs of any type of building is now ready for distribution. It will be sent without charge on request.

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(Division of Armstrong Cork Company)
132 Twenty-fourth Street, Pittsburgh, Pa. McGill Building, Montreal, Que.
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Armstrong's Corkboard Insulation

A Heatproof Lining for Walls and Roofs

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 140*

LATH, METAL AND REINFORCING—Continued

Milwaukee Corrugating Co., Milwaukee, Wis.
The Milcor Manual. Booklet 8½ x 11 in. 64 pp. Illustrated. Covers Milcor methods and materials, metal lath, corner beads, steel domes, channels, etc.

Northwestern Expanded Metal Co., 1234 Old Colony Building, Chicago, Ill.
Northwestern Expanded Metal Products. Booklet. 8½ x 10¾ in. 16 pp. Fully illustrated, and describes different products of this company, such as Kno-burn metal lath, 20th Century Corrugated. Plaster-Sava and Longspan lath channels, etc.

Wickwire Spencer Steel Co., Inc., 41 East 42nd St., New York.
Clinton Wire Lath. Brochure. 9 x 11 in. 51 pp. A valuable booklet on metal lathing and the proper method of using it.

LAUNDRY CHUTES

The Pfaudler Company, 217 Cutler Building, Rochester, N. Y.
Pfaudler Glass-Lined Steel Laundry Chutes. Booklet. 5⅛ x 7⅜ in. 16 pp. Illustrated. A beautifully printed brochure describing in detail with architects' specifications THE PFAUDLER GLASS LINED STEEL LAUNDRY CHUTES. Contains views of installations and list of representative examples.

LAUNDRY MACHINERY

American Laundry Machinery Co., Norwood Station, Cincinnati, Ohio.
Functions of the Hotel and Hospital Laundry. Brochure, 8 pp., 8½ x 11 ins. Valuable data regarding an important subject.

LIGHTING EQUIPMENT

Curtis Lighting, Inc., Chicago, Ill.
Catalog 393. 8 x 10 in. 34 pp. Illustrated. Describes and illustrates X-Ray reflectors for show cases and windows, and lighting fixtures for interior illumination of stores.
Lighting Specifications.—A. I. A. File 31 F. Looseleaf. 8½ x 11 in. Architectural detail plates on church, restaurant and home lighting. Complete details, illustrations and helpful ideas on direct and indirect illumination. Sent free to any registered architect who requests them on his own letterhead.

Guth Company, The Edwin F., 2615 Washington Ave., St. Louis, Mo.
Guth Lighting Equipment (Catalog No. 15). Booklet, 8½ x 11 ins. Fully illustrated, and covering lighting fixtures for buildings of all kinds.
Forge Craft (Catalog No. 16). Booklet, 16 pp., 8½ x 10¾ ins. Brochure dealing specifically with fixtures intended for use in buildings of the so-called "bungalow" type.
Aglite Porcelain Enameled Illuminators. Folder, 4 pp., 8½ x 11 in. on a new and improved type of lighting.

Holophane Glass Company, Inc., 342 Madison Ave., New York City.
Holophane Helps to Make Well Known Quality Products. Brochure. 20 pp., 8½ x 11 in. Deals with lighting industrial buildings, giving illustrations of well lighted interiors.
Modern Retailing Success. Booklet, 16 pp., 8½ x 11 in. Lighting of shops and show windows. Illustrations give many interesting suggestions.
Holophane Catalog; Commercial edition. Brochure, 40 pp., 8½ x 11 in. General catalog of details of lighting equipment.
Modern School Lighting. Booklet 35 pp., 6 x 9 in. Excellent work on lighting school rooms, gymnasiums, etc.

Pittsburgh Reflector Co., Pittsburgh, Pa.
Cove Lighting. Booklet. 8½ x 11 in. 24 pp. Gives complete data on lighting of this type.
Show Window Lighting. Booklet. 8½ x 11 in. 28 pp. A most useful work on lighting these important areas.

MAIL CHUTES

Cutler Mail Chute Company, Rochester, N. Y.
Cutler Mail Chute Model F. Booklet. 4 x 9¼ in. 8 pp. Illustrated.

MANTELS

Arthur Todhunter, 414 Madison Avenue, New York, N. Y.
Georgian Mantels. New Booklet. 24 pp. 5¼ x 6¼ in. A fully illustrated brochure on eighteenth century mantels. Folders give prices of mantels and illustrations and prices of fireplace equipment.

MARBLE

The Georgia Marble Company, Tate, Ga. New York Office, 1328 Broadway.
Why Georgia Marble is Better. Booklet. 3⅜ x 6 in. Gives analysis, physical qualities, comparison of absorption with granite, opinions of authorities, etc.
Convincing Proof. 3⅜ x 6 in. 8 pp. Classified list of buildings and memorials in which Georgia Marble has been used, with names of Architects and Sculptors.

METAL LATH—See Lath, Metal and Reinforcing

METALS

American Sheet & Tin Plate Co., Frick Building, Pittsburgh, Pa.
Reference Book. Pocket Ed. 2½ x 4½ in. 168 pp. Illustrated. Covers the complete line of Sheet and Tin Mill Products.
Apollo and Apollo-Keystone Galvanized Sheets. Catalog. 8½ x 11 in. 20 pp. Illustrated.
Research on the Corrosion Resistance of Copper Steel. Booklet. 8½ x 11 in. 24 pp. Illustrated. Technical information on results of atmospheric corrosion tests of various sheets under actual weather conditions.

The International Nickel Company, 67 Wall St., New York, N. Y.
The Choice of a Metal. Booklet. 6¼ x 3 in. 166 pp. Illustrated. Monel Metal—its qualities, use and commercial forms, briefly described.

METAL TRIM—See Doors and Trim, Metal

MILL WORK—See also Wood

Curtis Companies Service Bureau, Clinton, Iowa.
Architectural Interior and Exterior Woodwork. Standardized. Book. 9 x 11½ in. 240 pp. Illustrated. This is an Architects' Edition of the complete catalog of Curtis Woodwork, as designed by Trowbridge & Ackerman. Contains many color plates.

MILL WORK—Continued

Better Built Homes. Vols. XV-XVIII incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects for the Curtis Companies.
Curtis Details. Booklet. 19½ x 23½ in. 20 pp. Illustrated. Complete details of all items of Curtis woodwork, for the use of architects.

Hartmann-Sanders Company, 2155 Elston Ave., Chicago, Ill.
Column Catalog. 7½ x 10 in. 48 pp. Illustrated. Contains prices on columns 6 to 36 in. diameter, various designs and illustrations of columns and installations.
The Pergola Catalog. 7½ x 10 in. 64 pp. Illustrated. Contains illustrations of pergola lattices, garden furniture in wood and cement, garden accessories.

Roddis Lumber and Veneer Co., Marshfield, Wis.
Roddis Doors. Brochure, 24 pp., 5¼ x 8½ in. Illustrated price list of doors for various types of buildings.
Roddis Doors, Catalog G. Booklet, 183 pp., 8½ x 11 in. Completely covers the subject of doors for interior use.
Roddis Doors for Hospitals. Brochure, 15 pp., 8½ x 11 in. Illustrated work on hospital doors.
Roddis Doors for Hotels. Brochure, 15 pp., 8½ x 11 in. Illustrated work on doors for hotel and apartment buildings.

MORTAR COLORS

Clinton Metallic Paint Co., Clinton, N. Y.
Clinton Mortar Colors. Folder. 8½ x 11 in. 4 pp. Illustrated in color, gives full information concerning Clinton Mortar Colors with specific instructions for using them.
Color Card. 6½ x 3¼ in. Illustrates in color the ten shades in which Clinton Mortar Colors are manufactured.
Something new in Stucco. Folder. 3½ x 6 ins. An interesting folder on the use of coloring matter for stucco-coated walls.

PAINTS, STAINS, VARNISHES AND WOOD FINISHES

Cabot, Inc., Samuel, Boston, Mass.
Cabot's Creosote Stains. Booklet. 4 x 8½ in. 16 pp. Illustrated.

The Glidden Company, Cleveland, Ohio.
More Daylight. 8 x 10½ in. 20 pp. Portraying by illustrations and text the need and methods of modern mill painting.
Glidden Specification Book. 8 x 10¾ in. 12 pp. Complete architectural specifications for Glidden Paints and Varnishes, including Ripolin. Directions for the proper finishing of wood, metal plaster, concrete, brick and other surfaces.

Martin Varnish Co., 2500 Quarry St., Chicago, Ill.
Architectural Specifications. Booklet. 8½ x 11 in. 20 pp. Illustrated. Complete guide for Architects in specifying Martin Varish Products.
Your Floors. Booklet. 5 x 7 in. 20 pp. Illustrated. Explains fully how to finish all kinds of floors and woodwork with Martin's Pure Varnish.

A. C. Horn Company, Long Island City, N. Y.
Keramic Catalog. Booklet. 26 pp., 8½ x 11 in. A magnificent brochure illustrated in color, describing a valuable line of specialties for use with concrete floors—colorings, hardeners, waterproofing, etc.

National Lead Company, 111 Broadway, New York, N. Y.
Handy Book on Painting. Book. 5½ x 3¼ in. 100 pp. Gives directions and formulæ for painting various surfaces of wood, plaster, metals, etc., both interior and exterior.
Red Lead in Paste Form. Booklet. 6¼ x 3½ in. 16 pp. Illustrated. Directions and formulæ for painting metals.
Came Lead. Booklet. 8¾ x 6 in. 12 pp. Illustrated. Describes various styles of lead cames.
Cinch Anchoring Specialties. Booklet. 6 x 3½ in. 20 pp. Illustrated. Describes complete line of expansion bolts.

Pratt & Lambert, Inc., Buffalo, N. Y.
Specification Manual for Paint, Varnishing and Enameling. Booklet, 38 pp., 7½ x 10⅝ ins. Complete specifications for painting, varnishing and enameling interior and exterior wood, plaster, and metal work.

The Ripolin Company, Cleveland, Ohio.
Ripolin Specifications. Book. 8 x 10¾ in. 12 pp. Complete specifications and general instructions for the application of Ripolin, the original Holland enamel paint. Also directions for proper finishing of wood, metal, plaster, concrete, brick and other surfaces.
Why Ripolin Has an International Reputation. 8 x 10¾ in. 24 pp. Designed for the architect's files to illustrate the many varied uses of Ripolin Enamel Paint in all parts of the world. Profusely illustrated.

Ruberoid Co., The (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.
Preservative Coating. Booklet. 6 x 9 in. 15 pp. Illustrated. Presents in a concise manner the properties and uses of the Ruberoid Company's various paint preparations.

Sherwin-Williams Company, 601 Canal Rd., Cleveland, Ohio.
Painting Concrete and Stucco Surfaces. Bulletin No. 1. 8½ x 11 in. 8 pp. Illustrated. A complete treatise with complete specifications on the subject of Painting of Concrete and Stucco Surfaces. Color chips of paint shown in bulletin.
Enamel Finish for Interior and Exterior Surfaces. Bulletin No. 2, 8½ x 11 in. 12 pp. Illustrated. Thorough discussion, including complete specifications for securing the most satisfactory enamel finish on interior and exterior walls and trim.
Painting and Decoratnig of Interior Walls. Bulletin No. 3. 8½ x 11 in. 20 pp. Illustrated. An excellent reference book on Flat Wall Finish, including texture effects, which are taking the country by storm. Every architect should have one on file.
Protective Paints for Metal Surfaces. Bulletin No. 4. 8½ x 11 in. 12 pp. Illustrated. A highly technical subject treated in a simple, understandable manner.

Sonneborn Sons, Inc., L., Dept. 4, 116 Fifth Avenue, New York.
Paint Specifications. Booklet. 8½ x 10¾ in. 4 pp.

Architect: Chatten & Hammond

Architect: Howard Van Dorn Shaw

Architect: David Adler & Robert Work

Architect: Otis & Clark

Architect: Shepley, Rutan & Coolidge

A group of homes in and about Lake Forest, Illinois, equipped with Clow Plumbing.

PREFERRED FOR EXACTING PLUMBING SINCE 1878

Architect: Marshall & Fox

In Country and Suburban Homes — Where Only the Finest Is Good Enough

It is significant that so many of the finer suburban and country homes—of which the few pictured on this page are typical—should be fitted with Clow Plumbing.

The answer lies in Clow's long experience, in Clow's wide range of choice of beautiful fixtures, in Clow's careful practices.

No Clow Fixture or Fitting is ever shipped to a job until after it has been "set up" according to specifications and tested under conditions that approximate the actual service it will meet.

Once an architect, or home owner, has had an experience with such proven plumbing, he almost invariably continues to specify it on his new work.

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JAMES B. CLOW & SONS, 201 to 299 N. Talman Avenue, CHICAGO
Offices in Principal Cities

CLOW

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 142*

PAINTS, STAINS, VARNISHES AND WOOD FINISHES—Continued

Zapon Co., The, 247 Park Ave., New York City.
Zapon Architectural Specifications. Booklet, 28 pp., 8½ x 11 in. Describes odorless brushing and spraying lacquers and lacquer enamels.

PANELING—See Millwork

PARTITIONS

Circle A Products Corporations, New Castle, Ind.
Circle A Partitions Sectional and Movable. Brochure. Illustrated. 8½ x 11¼ in. 32 pp. Full data regarding an important line of partitions, along with Erection Instructions for partitions of three different types.

Hauserman Company, E. F., Cleveland, Ohio.
Hollow Steel Standard Partitions. Various folders, 8½ x 11. Illustrated. Give full data on different types of steel partitions, together with details, elevations and specifications.

Improved Office Partition Company, 25 Grand St., Elmhurst, L. I.
Telesco Partition. Catalog. 8¼ x 11 in. 14 pp. Illustrated. Shows typical offices laid out with Telesco partitions, cuts of finished partition units in various woods. Gives specifications and cuts of buildings using Telesco.
Detailed Instructions for erecting Telesco Partitions. Booklet. 24 pp. 8½ x 11 in. Illustrated. Complete instructions, with cuts and drawings, showing how easily Telesco Partition can be erected.

Richards-Wilcox Mfg. Co., Aurora, Ill.
Partitions. Booklet. 7 x 10 in. 32 pp. Illustrated. Describes complete line of track and hangers for all styles of sliding, parallel, accordion and flush door partitions.

Sanymetal Products Co., Cleveland, Ohio.
Sanymetal Partitions for Toilet Rooms. Booklet. 7¾ x 11 in. 24 pp. Illustrated. Complete data on a valuable line of toilet room partitions.
Sanymetal Products. Brochure. 8½ x 11 in. 40 pp. Illustrated. Describes metal partitions, wainscots, roller hinges and toilet room hardware.

U. S. Gypsum Co., Chicago.
Pyrobar Partition and Furring Tile. Booklet. 8½ x 11 in. 24 pp. Illustrated. Describes use and advantages of hollow tile for inner partitions.

PIPE

American Brass Company, Waterbury, Conn.
Bulletin B-1. Brass Pipe for Water Service. 8½ x 11 in. 28 pp. Illustrated. Gives schedule of weights and sizes (I.P.S.) of seamless brass and copper pipe, shows typical installations of brass pipe, and gives general discussion cf the corrosive effect of water on iron, steel and brass pipe.

Clow & Sons, James B., 534 S. Franklin St., Chicago, Ill.
Catalog "A". 4 x 6½ in. 700 pp. Illustrated. Shows a full line of steam, gas and water works supplies.

Duriron Company, Inc., Dayton, Ohio.
Duriron Acid, Alkali, Rust-proof Drain Pipe and Fillings. Booklet, 20 pp., 8½ x 11 in., illustrated. Important data on a valuable line of pipe.

National Tube Co., Frick Building, Pittsburgh, Pa.
"National" Bulletin No. 2. Corrosion of Hot Water Pipe, (8½ x 11 in. 24 pp.) Illustrated. In this bulletin is summed up the most important research dealing with hot water systems. The text matter consists of seven investigations by authorities on this subject.
"National" Bulletin No. 3. The Protection of Pipe Against Internal Corrosion (8½ x 11 in. 20 pp.) Illustrated. Discusses various causes of corrosion, and details are given of the deactivating and deaerating systems for eliminating or retarding corrosion in hot water supply lines.
"National" Bulletin No. 25. "National" Pipe in Large Buildings. 8½ x 11 in. 88 pp. This bulletin contains 254 illustrations of prominent buildings of all types, containing "National" Pipe and considerable, engineering data of value to architects, engineers, etc.
Modern Welded Pipe. Book of 88 pp. (8½ x 11 in.), profusely illustrated with halftone and line engravings of the important operations in the manufacture of pipe.

PLUMBING EQUIPMENT

Clow & Sons, James B., 534 S. Franklin Street, Chicago, Ill.
Catalog "M." 9¼ x 12 in. 184 pp. Illustrated. Shows complete line of plumbing fixtures for Schools, Railroads and Industrial Plants.

Crane Company, 836 S. Michigan Avenue, Chicago, Ill.
Plumbing Suggestions for Home Builders. Catalog. 3 x 6 in. 80 pp. Illustrated.
Plumbing Suggestions for Industrial Plants. Catalog. 4 x 6½ in. 43 pp. Illustrated.
Planning the Small Bathroom. Booklet. 5 x 8 in. Discusses planning bathrooms of small dimensions.

Duriron Company, Dayton, Ohio.
Duriron Acid, Alkali and Rust-proof Drain Pipe and Fittings. Booklet, 8½ x 11 ins., 20 pp. Full details regarding a valuable form of piping.

Eljer Company, Fort City, Pa.
Complete Catalog. 3¾ x 6¾ in. 104 pp. Illustrated. Describes fully the complete Eljer line of standardized vitreous china plumbing fixtures, with diagrams, weights and measurements.
Standardized Sixteen Circular. 3¾ x 6¾ in. 18 pp. Illustrated.

Kohler Co., Kohler, Wis.
Catalog F. 7½ x 10⅝ in. 216 pp. Illustrates and describes the complete line of Kohler trade-marked plumbing ware.
Roughing-In Measurement Binder. 5 x 8 in., containing loose leaf sheets on all staple fixtures.

Maddock's Sons Company, Thomas, Trenton, N. J.
Catalog K. 10⅞ x 7⅞ in. 242 pp. Illustrated. Complete data on vitreous china plumbing fixtures with brief history of Sanitary Pottery.

PLUMBING EQUIPMENT—Continued

Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.

Speakman Company, Wilmington, Del.
Speakman Showers and Fixtures. Catalog. 4½ x 7½ in. 250 pp. Illustrated. Catalog of Modern Showers and Brass Plumbing Fixtures, with drawings showing layouts, measurements, etc.
Toned Up in Ten Minutes. Booklet. 7½ x 10½ in. 16 pp. Illustrated. Modern Showers and Washups for Industrial Plants, showing the sanitary method of washing in running water.

PUMPS

Chicago Pump Company, 2300 Wolfram Street, Chicago, Ill. ... ...
The Correct Pump to Use. Portfolio containing handy data. Individual bulletins, 8½ x 11 in., on bilge, sewage, condensation, circulating, house, boiler feed and fire pumps.

Kewanee Private Utilities Co., 442 Franklin St., Kewanee, Ill. .....
Bulletin E. 7¾ x 10¼ in. 32 pp. Illustrated. Catalog. Complete descriptions, with all necessary data, on Standard Service Pumps, Indian Brand Pneumatic Tanks, and Complete Water Systems, as installed by Kewanee Private Utilities Co.

RAMPS

Ramp Buildings Corporation, 21 East 40th Street, New York.
Building Garages for Profitable Operation. Booklet. 8½ x 11 in. 16 pp. Illustrated. Discusses the need for modern mid-city parking garages, and describes the d'Humy Motoramp system of design, on the basis of its superior space economy and features of operating convenience. Gives cost analyses of garages of different sizes, and calculates probable earnings.
Garage Design Data. Series of informal bulletins issued in loose-leaf form, with monthly supplements.

The Trane Co., LaCrosse, Wis.
Trane Small Centrifugal Pumps. Booklet. 3¾ x 8 in., 16 pp. Complete data on an important type of pump.

The Hockenbury System Incorporated, Harrisburg, Pa., for years specializing in the financing of modern community hotels, of which they have financed a hundred such throughout the United States, has expanded its service to include the financing of MOTORAMP garage buildings. They now have available for distribution an 8¾ x 11 booklet entitled: "The Hitching Post Problem Is Here Again," in which they explain their solution of the street motor parking problem, which will be sent free to inquiring architects.

REINFORCED CONCRETE—See also Construction, Concrete

The General Fireproofing Company, Youngstown, Ohio.
Self-Sentering Handbook. 8½ x 11 in. 36 pp. Illustrated. Methods and specifications on reinforced concrete floors, roofs ands floors with a combined form and reinforced material.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.
Shearing Stresses in Reinforced Concrete Beams. Booklet. 8½ x 11 in. 12 pp.

North Western Expanded Metal Company, Chicago, Ill.
Designing Data. Book. 6 x 9 in. 96 pp. Illustrated. Covers the use of Econo Expanded Metal for various types of reinforced concrete construction.

ROOFING

American Sheet & Tin Plate Co., Frick Bldg., Pittsburgh, Pa.
Better Buildings. Catalog. 8½ x 11 in. 32 pp. Describes Corrugated and Formed Sheet Steel Roofing and Siding Products, black, painted and galvanized, with directions for application of various patterns of Sheet Steel Roofing in various types of construction.
Copper—Its Effect Upon Steel for Roofing Tin. Catalog. 8½ x 11 in. 28 pp. Illustrated. Describes the merits of high-grade roofing tin plates and the advantages of the copper-steel alloy.
The Testimony of a Decade. Booklet. 8½ x 11 in. 16 pp., with Graphic Chart and illustrations showing losses to various Iron and Steel Sheets for roofing, from atmosphere corrosion.

Barber Asphalt Co., Philadelphia, Pa.
Specifications, Genasco Standard Trinidad Lake Asphalt Built-up Roofing. Booklet. 8 x 10½ in. Gives specifications for use of several valuable roofing and waterproofing materials.

The Barrett Company, 40 Rector Street, New York City
Architects' and Engineers' Built-up Roofing Reference Series; Volume IV Roof Drainage System. Brochure. 63 pp. 8½ x 11¼ ins. Gives complete data and specifications for many details of roofing.

Philip Carey Co., Lockland, Cincinnati, Ohio.
Architects Specifications for Carey Built-up Roofing. Booklet. 8 x 10¾ in. 24 pp. Illustrated. Complete data to aid in specifying the different types of built-up roofing to suit the kind of roof construction to be covered.
Carey Built-up Roofing for Modern School Buildings. Booklet. 8 x 10¾ in. 32 pp. Illustrated. A study of school buildings of a number of different kinds and the roofing materials adapted for each.

Federal Cement Tile Co., 608 So. Dearborn St., Chicago, Ill.
The Indestructible Roof. Booklet. 10 x 13 in. 32 pp. Illustrated. Illustrates and describes the installation of permanent concrete interlocking tile, tile with glass insets, flat tile and channel tile, on all types of industrial plants and other buildings with flat and pitched surfaces.
Standards. Booklet. 8½ x 11 in. 40 pp. Illustrated with full-page drawings. Gives full details of all forms of roof construction of steel structure, ridge and gutter construction, purlin arrangement, spacing, etc., for standard roofs.
The Ideal Retaining Wall. Leaflet, 4 pp., 8½ x 11 in., illustrated. Valuable data on use of Federal Cribbing Units for constructing retaining walls.
The Roof for Permanence. Booklet, 12 pp., 8½ x 11 in., illustrated. Deals with Federal Cement Tile for flat and pitched roofs for large buildings.

"Regarding the use of Carney Cement for mortar on the Eastgate Hotel job, we are pleased to advise that your material was used on this structure with very excellent results, both as to quality and appearance of finished mortar.

All of the brickwork was done in freezing weather, but with no deleterious effect on the mortar.

On this particular job, your material was used throughout for all brick, tile partitions and terra cotta work.

We consider the assurance of obtaining a uniform mix with your mortar a very valuable asset inasmuch as it practically eliminates the necessity of constant supervision of mortar preparation."

Samuel S. Oman,
Oman & Lilienthal,
Chicago, Illinois.

—You, too, will like Carney Cement for Winter Construction

IF you have a winter project, you will be interested in the experience of Oman & Lilienthal, Architects, with Carney Cement Mortar in cold weather. Any man who has ever watched Carney Cement on a winter job will tell you virtually the same things. Carney Cement can freeze solid in the wall, yet produce an ideal bond.

In addition to this exceptional cold weather feature, the use of Carney Cement Mortar will save you the unpleasant task of close supervision at the mortar box and reduce masonry and mixing costs as well. In Carney Cement, there are no complicated details to watch. Water, sand and Carney Cement are all that are needed to produce a fine plastic mortar. This extremely simple mix makes errors decidedly improbable and at the same time enables you to show your client a distinct economy in labor and materials.

THE CARNEY COMPANY

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CARNEY CEMENT

for Brick and Tile Mortar

Specifications:
1 part Carney Cement
to 4 parts sand.

*Architects—Oman & Lilienthal,
Chicago, Illinois
*Contractors—H. Janisch & Company,
Chicago, Illinois

SELECTED LIST OF MANUFACTURERS PUBLICATIONS—*Continued from page 144*

ROOFING—Continued

Johns-Manville, Inc., Madison Ave. & 41st St., New York, N. Y.

Johns-Manville Building Materials. Book. 8½ x 11 in. 100 pp. Illustrated. A comprehensive catalog of various types of roofing for all forms of construction. Details of wall, floor and ceiling insulation; asbestos wood for fireproof construction; waterproofing, etc.

Johns-Manville Asbestos Shingles. Booklet. 8½ x 11 in. 24 pp. Illustrated. This booklet is profusely illustrated in colors, showing some very artistic blends of asbestos shingles with various types of architecture. Contains many valuable suggestions for the architect.

Ludowici-Celadon Company, 104 So. Michigan Ave., Chicago, Ill.

"Ancient" Tapered Mission Tiles. Leaflet. 8½ x 11 in. 4 pp. Illustrated. For architects who desire something out of the ordinary, this leaflet has been prepared. Describes briefly the "Ancient" Tapered Mission Tiles, hand-made, with full corners and designed to be applied with irregular exposures.

Milwaukee Corrugating Co., Milwaukee, Wis.

The Milcor Architectural Sheet Metal Guide. Booklet. 8½ x 11 in. 64 pp. Illustrated. Gives valuable technical sheet metal data.

Ruberoid Co., The (formerly the Standard Paint Co.), 95 Madison Avenue, New York, N. Y.

Instructions for Laying Built-up Roofs. Booklet. 8½ x 11 in. Illustrated.

Ruberoid Strip Shingle. Booklet. 3½ x 6¼ in. 16 pp. Illustrated in color.

U. S. Gypsum Co., Chicago.

Pyrobar Roof Construction. Booklet. 8 x 11 in. 48 pp. Illustrated. Gives valuable data on the use of tile in roof construction.

Sheetrock Pyrofill Roof Construction. Folder. 8½ x 11 in. Illustrated. Covers use of roof surfacing which is poured in place.

SASH CHAIN

Smith & Egge Mfg. Co., The, Bridgeport, Conn.

Chain Catalog. 6 x 8½ in. 24 pp. Illustrated. Covers complete line of chains.

SASH CORD

Samson Cordage Works, Boston, Mass.

Catalog. 3½ x 6¾ in. 24 pp. Illustrated. Covers complete line of rope and cord.

SEWAGE DISPOSAL

Chicago Pump Co., 2336 Wolfram St., Chicago, Ill.

Flush-Kleen Dry Basin Sewage Ejector. Booklet, 16 pp., 8½ x 11 in. Illustrations and data on an important detail of equipment.

SCREENS

American Brass Co., The, Waterbury, Conn.

Facts for Architects About Screening. Illustrated folder, 9½ x 11¾ in., giving actual samples of metal screen cloth and data on fly screens and screen doors.

Athey Company, 6015 West 65th St., Chicago, Ill.

The Athey Perennial Window Shade. An accordian pleated window shade, made from translucent Herringbone woven Coutil cloth, which raises from the bottom and lowers from the top. It eliminates awnings, affords ventilation, can be dry-cleaned and will wear indefinitely.

The Higgin Manufacturing Co., Newport, Ky.

Your Home Screened the Higgin Way. Booklet. 8½ x 11½ in. 13 pp. Illustrated in colors. Complete description of Higgin Screens, designed to meet every need.

SEWAGE DISPOSAL

Kewanee Private Utilities, 442 Franklin St., Kewanee, Ill.

Specification Sheets. 7¾ x 10¼ in. 40 pp. Illustrated. Detailed drawings and specifications covering water supply and sewage disposal systems.

SHELVING-STEEL

David Lupton's Sons Company, Philadelphia, Pa.

Lupton Steel Shelving. Catalog D. Illustrated brochure, 40 pp., 8⅝ x 11 in. Deals with steel cabinets, shelving, racks, doors, partitions, etc.

SOUND DEADENER

Cabot, Inc., Samuel, Boston, Mass.

Cabot's Deadening Quilt. Brochure 7½ x 10½ ins., 28 pp., Illustrated. Gives complete data regarding a well-known protection against sound.

STAINS—See Paints, Varnishes, Wood Finishes

STEEL JOISTS

Massillon Steel Joist Co., Canton, Ohio.

Massillon Bar Joists. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Describes the product and methods of its use.

Safe Loading Tables and Standard Specifications. Pamphlet. 8½ x 11 in. 8 pp. Gives standard specifications for Massillon Bar Joist Permanent Fireproof Floor and Roof Construction, and safe loading tables for all spans from 4 feet to 30 feet 6 inches. It also gives detailed dimensions of the 21 standard bar joists covering this range of span.

Handling and Erection of Massillon Bar Joists. Pamphlet. 8½ x 11 in. 12 pp. Illustrated. Intended chiefly to instruct the contractor in the different methods of using the product.

Massillon Metal Lath. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. Detailed recommendations, with illustrations, regarding typical methods of fireproofing steel joist floor construction, steel columns and steel beams.

STONE, BUILDING

Indiana Limestone Company, Bedford, Ind.

Volume 3, Series A-3. Standard Specifications for Cut Indiana Limestone work, 8½ x 11 in. 56 pp. Containing specifications and supplementary data relating to the best methods of specifying and using this stone for all building purposes.

Vol. 1. Series B. Indiana Limestone Library. 6 x 9 in. 36 pp. Illustrated. Giving general information regarding Indiana Limestone, its physical characteristics, etc.

Vol. 4. Series B. Booklet. New Edition. 8½ x 11 in. 64 pp. Illustrated. Indiana Limestone as used in Banks.

Volume 5. Series B. Indiana Limestone Library. Portfolio. 11⅜ x 8¾ in. Illustrated. Describes and illustrates the use of stone for small houses with floor plans of each.

STONE, BUILDING—Continued

Volume 6, Series B—Indiana Limestone School and College Buildings. 8½ x 11 in., 80 pages, illustrated.

Volume 12, Series B—Distinctive Homes of Indiana Limestone. 8½ x 11 in., 48 pages, illustrated.

Old Gothic Random Ashlar. 8½ x 11 in., 16 pages, illustrated.

STORE FRONTS

Brasco Manufacturing Co., 5025-35 South Wabash Avenue, Chicago, Ill.

Portfolio. 8½ x 11 in. 32 pp. Illustrated. Selected examples of Brasco Copper Store Fronts suitable for different businesses and varying conditions of locations.

Catalog 28. 8½ x 10¾ in. 20 pp. Illustrated with plates. Details of Brasco Copper Store front construction. Also showcases, ventilator sashes.

Detail Sheets. Set of five sheets giving details and suggestions for store front designing enclosed in envelope convenient for filing.

Brasco Copper Store Fronts; Series 202, Brasco Standard Construction. Illustrated brochure. 16 pp. 8¼ x 11 ins. Complete data on an important type of building.

Brasco Copper Store Fronts; Series 500, All-copper Construction. Illustrated brochure. 20 pp. 8½ x 11 ins. Deals with store fronts of a high class.

Kawneer Co., The, Niles, Mich.

A Collection of Successful Designs. Catalog. 9¼ x 6½ in. 64 pp. Illustrated. Showing by use of drawings and photographs many types of Kawneer Solid Copper Store Fronts.

Catalog L, 1925 Edition. 8½ x 11 in. 32 pp. Illustrated. Details of copper store front construction.

Metal Store Fronts. Sheets, 17 x 22 in. Draftsmen's details of copper store fronts for use in tracing.

Zouri Drawn Metals Company, Chicago Heights, Ill.

Zouri Safety Key-Set Store Front Construction. Catalog. 8½ x 10½ in. 60 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

International Store Front Construction. Catalog. 8½ x 10 in. 70 pp. Illustrated. Complete information with detailed sheets and installation instructions convenient for architects' files.

SWIMMING POOL CONSTRUCTION

Rohmer Standard Swimming Pool Equipment Ass'n., 516 Fifth Ave., New York City.

This firm issues various publications on this important subject.

Sandusky Cement Co., Dept. F., Cleveland, Ohio.

Medusa Pool Book. Booklet. 8½ x 11 ins. 16 pp. Illustrated. Valuable work on bathing pools, indoors and outdoors.

SWIMMING POOL EQUIPMENT

Rohmer Standard Swimming Pool Equipment Ass'n., 516 Fifth Ave., New York City.

This firm issues various publications on this important subject.

SWIMMING POOL EQUIPMENT & STERILIZATION

R. U. V. Company, Inc., 383 Madison Avenue, New York City.

Water Sterilization by Means of Ultra Violet Rays. Booklet 8½ x 11 in. 16 pp. Full data on a system of purifying water.

Swimming Pool Sterilization. Booklet 8½ x 11 in. 24 pp. Describes a method purifying water in bathing pools.

Wallace & Tiernan Company, Newark, N. J.

The W. & T. Chlorometer, Technical Publication, No. 55. Booklet, 8½ x 11 in. 8 pp. Illustrated. A useful brochure dealing with the value of pure water and the importance of the chlorination process in sterilization.

TECHNICAL PAINTING

Toch Brothers, 110 East 42nd Street, New York City.

Specifications for Dampproofing, Waterproofing, Enameling and Technical Painting. Complete and authoritative directions for use of an important line of materials.

TERRA COTTA

National Terra Cotta Society, 19 West 44th St., New York, N. Y.

Standard Specifications for the Manufacture, Furnishing and Setting of Terra Cotta. Brochure 8½ x 11 in. 12 pp. Furnishing and Setting of Terra Cotta, consisting of complete detail Specification, Glossary of Terms Relating to Terra Cotta and Short Form Specification for incorporating in Architects' Specifications.

Color in Architecture. Revised Edition. Permanently bound volume 9¼ x 12¼ in., containing a treatise upon the basic principles of color in architectural design, illustrating early European and modern American examples. Excellent illustrations in color.

Present Day Schools. 8½ x 11 in. 32 pp. Illustrating 42 examples of school architecture with article upon school building design by James O. Betelle, A. I. A.

Better Banks. 8½ x 11 in. 32 pp. Illustrating many banking buildings in terra cotta with an article on its use in bank design by Alfred C. Bossom, Architect.

THERMOSTATS—See Heating Equipment

TILE, HOLLOW

National Fire Proofing Co., 250 Federal St., Pittsburgh, Pa.

Standard Wall Construction Bulletin 174. 8½ x 11 in. 32 pp. Illustrated. A treatise on the subject of hollow tile wall construction.

Natco on the Farm. 8½ x 11 in. 38 pp. Illustrated. A treatise on the subject of fire safe and permanent farm building construction.

Natco Homes and Garages. Booklet. 7 x 10 in. 32 pp. Illustrated. Showing the use of Natco Hollow Tile for private residences.

TREADS

The Tri-lok Company, 5515 Butler Street, Pittsburgh, Pa.

What a Difference Three Locks Make. Folder. 4 pp. 8½ x 11 ins. Deals with a means of holding slender members of metal in accurate alignment.

"The last place where we would sacrifice quality"

© W. B. Poynter

HARRY HAKE, *a leading architect of Cincinnati, Ohio. Buildings designed by Mr. Hake include many of the best known structures in Cincinnati and surrounding cities. Mr. Hake is a member of the A. I. A.*

"THE more experience we have in building," said Harry Hake, well-known architect of Cincinnati, "the more important do we consider the roof. In fact, the roof is about the last place where we would consider sacrificing quality.

"Our experience has led us to believe that a built-up membrane roofing will give the best results for flat roof decks.

"Hardly second in importance to the roofing itself is the flashing—for the value of a good roof may be practically offset by flashing which fails to keep out the water. Wherever conditions permit, we find it is better to bring the roof membrane up the parapet wall and under the coping, rather than resort to metal flashings. We have never yet had a case where this construction has proved in any way unsatisfactory."

Hotel Alms, Cincinnati, Ohio—designed by Harry Hake, and covered with a Carey Built-up Roof.

In view of Mr. Hake's opinion as to the importance of a good roof, it is significant that Carey Built-up Roofing is used extensively on buildings designed by him. The long, dependable service of Carey Built-up Roofs has been demonstrated on buildings all over the country—on hotels, office buildings, factories, schools, apartment houses. In fact, Carey roofs put on three decades and more ago are still giving splendid, weather-tight service. Carey-made felt, thick and tough-fibred—and asphalts specially refined and blended by Carey to meet exact standards in melting point, hardness, and ductility—these are the reasons why Carey Built-up Roofs last longer and give better service.

THE PHILIP CAREY COMPANY
Lockland, Cincinnati, Ohio

Note to Architects:
Send for our architects' specification book.

Carey
BUILT-UP ROOFS

"A Roof for Every Building"

No Town Need Be Under-Hoteled

—not when cities and towns in your own immediate vicinity have built, or are building, new, modern hotels. Chances are your needed hotel would have been built ere this but for the lack of adequate financing.

Chances are, too, that the hotel in your nearest competitive town had the same problem, until it was financed by the modern method.

Your city can have a modern hotel if it's *Hockenbury financed.

Ask that your name be placed on our complimentary Architectural list, "F-11", that we may send you regularly, a copy of THE HOTEL FINANCIALISTS, a journal devoted to community hotel financing. It's suggestions may help you get a new hotel for your city.

*Hockenbury Financed is synonymous with economy, celerity, certainty, in hotel financing.

The Hockenbury System Inc.

Harrisburg, - Pennsylvania

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—*Continued from page 146*

VACUUM CLEANING APPARATUS

The Spencer Turbine Company, Hartford, Conn.
Vacuum Cleaning Apparatus for all purposes. Booklet. 32 pp. Illustrated. Complete information on product, showing prominent buildings equipped with this system.

VAULT REINFORCING

Massillon Steel Joist Co., Canton, Ohio.
Massillon Bank Vault Reinforcing. Pamphlet. 8½ x 11 in. 8 pp. Illustrated. General information, with illustrations, on typical bank vaults built with standardized steel reinforcing frames. The system includes chairs, spacers, and tie bars, complete and ready for the contractor to place in his forms for pouring the concrete.

VALVES

Crane Co., 836 S. Michigan Ave., Chicago, Ill.
No. 51. General Catalogue. Illustrated. Describes tne complete line of the Crane Co.

Illinois Engineering Co., Racine Ave., at 21st St., Chicago, Ill.
Catalog. 8½ x 11 in. 88 pp. Illustrated.

Jenkins Bros., 80 White Street, New York.
The Valve Behind a Good Heating System. Booklet 4½ x 7¼ in. 16 pp. Color plates. Description of Jenkins Radiator Valves for steam and hot water, and brass valves used as boiler connections.
Jenkins Valves for Plumbing Service. Booklet. 4½ x 7¼ in. 16 pp. Illustrated. Description of Jenkins Brass Globe, Angle Check and Gate Valves commonly used in home plumbing, and Iron Body Valves used for larger plumbing installations.

Mueller Co., Decatur, Ill.
Catalog G, 8 x 11 in., 316 pages. Profusely illustrated. Contains full data on plumbing, water and gas brass goods, including valves, faucets, traps, regulators, built-in bath equipment, and automatic systems of hot water control. Complete details are presented with a number of data sheets showing roughing-in-measurements for built-in bath equipment.

VARNISH—See Paints, Stains, Varnishes

VENETIAN BLINDS

Burlington Venetian Blind Co., Burlington, Vt.
Venetian Blinds. Booklet, 7 in. x 10 in., 24 pages. Illustrated. Describes the "Burlington" Venetian blinds, method of operation, advantages of installation to obtain perfect control of light in the room.

VENTILATION

American Blower Co., Detroit, Mich.
American H. S. Fans. Brochure, 28 pp., 8½ x 11 in. Data on an important line of blowers.

Duriron Company, Dayton, Ohio.
Acid-proof Exhaust Fans. Folder, 8 x 10½ ins., 8 pp. Data regarding fans for ventilation of laboratory fume hoods.
Specification Form for Acid-proof Exhaust Fans. Folder, 8 x 10½ ins.

Globe Ventilator Company, 205 River Street, Troy, N. Y.
Globe Ventilators Catalog. 6 x 9 in. 32 pp. Illustrated profusely. Catalog gives complete data on "Globe" ventilators as to sizes, dimensions, gauges of material and table of capacities. It illustrates many different types of buildings on which "Globe" ventilators are in successful service, showing their adaptability to meet varying requirements.

Peerless Unit Ventilation Company, Long Island City, N. Y.
PeerVent Heating and Ventilating Unit. Brochure 6 x 6½ in. Illustrated. Valuable data on apparatus for ventilating and heating buildings of different types.

Van Zile Ventilating Corporation, 155 East 42nd Street, New York, N. Y.
The Ventadoor Booklet. 6½ x 3½ in. 16 pp. Illustrated. Describes and illustrates the use of the Ventadoor for Hotels, Clubs, Offices, etc.

WATERPROOFING

Carey Company, The Philip, Lockland, Cincinnati, Ohio.
Waterproofing Specification Book. 8½ x 11 in. 52 pp.

The General Fireproofing Company, Youngstown, Ohio.
Waterproofing Handbook. Booklet. 8½ x 11 in. 72 pp. Illustrated. Thoroughly covers subject of waterproofing concrete, wood and steel preservatives, dustproofing and hardening concrete floors, and accelerating the setting of concrete. Free distribution.

A. C. Horn Company, Long Island City, N. Y.
Waterproofing. Folder. 9½ x 11½ in. Contains folders giving data on excellent waterproofing and dampproofing materials.

Master Builders Company, Cleveland, Ohio.
Waterproofing and Dampproofing and Allied Products. Sheets in loose index file, 9 x 12 in. Valuable data on different types of materials for protection against dampness.

Ruberoid Co., The, 95 Madison Ave., New York.
Impervite. Circular. 8½ x 11 in. 4 pp. Illustrated. An integral water-proofing compound for concrete, stucco, cement, mortar, etc.

Sandusky Cement Co., Dept. F., Cleveland, Ohio.
Medusa Waterproofing. Booklet. 6¾ x 9 in. 38 pp. Illustrated.
Medusa Waterproofing; General specifications. Booklet. 8½ x 11 ins. 32 pp.

Sommers & Co., Ltd., 342 Madison Ave., New York City.
"Permantile Liquid Waterproofing" for making concrete and cement mortar permanently impervious to water. Also circulars on floor treatments and cement colors. Complete data and specifications. Sent upon request to architects using business stationery. Circular size, 8½ x 11 in.

Sonneborn Sons, Inc., L., 116 Fifth Ave., New York, N. Y.
Pamphlet. 3¾ x 8¾ in. 8 pp. Explanation of waterproofing principles. Specifications for waterproofing walls, floors, swimming pools and treatment of concrete, stucco and mortar.

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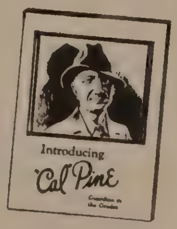

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See Our Page in the Fall Edition of Sweet's Catalogue

SELECTED LIST OF MANUFACTURERS' PUBLICATIONS—*Continued from page 148*

WEATHER STRIPS

Chamberlin Metal Weather Strip Company, 1644 Lafayette Boulevard, Detroit, Mich.

Chamberlin Metal Weather Strip Details, 1925 edition. Catalog 8½ x 11 in. 48 pp. Complete specifications and full-sized details. With or without 9 x 11¾ in. folder conforming to A. I. A. filing system. May also be used in loose leaf form.

Excluding Cold and Dust with Chamberlin for 32 years. Booklet 5⅛ x 7⅜ in. 16 pp. Illustrated. Completely and interestingly illustrates application of Chamberlin equipment.

The Higgin Manufacturing Co., Newport, Ky.

Higgin All-Metal Weather Strips. Booklet. 6 x 9 in. 21 pp. Illustrated in colors. Describes various types of Higgin Weather Strips for sealing windows and doors against cold and dust.

WINDOWS

David Lupton's Sons Company, Philadelphia, Pa.

Lupton Pivoted Sash, Catalog 12-A. Booklet 48 pp. 8⅝ x 11 in. Illustrates and describes windows suitable for manufacturing buildings.

WINDOWS, CASEMENT

Richards-Wilcox Mfg. Co., Aurora, Ill.

Casement Window Hardware. Booklet. 24 pp. 8½ x 11 in. Illustrated. Shows typical installations, detail drawings, construction details, blue-prints if desired. Describes AIR-way Multifold Window Hardware.

Crittall Casement Window Co., 10951 Hearn Ave., Detroit, Mich.

Catalog No. 22. 9 x 12 in. 76 pp. Illustrated. Photographs of actual work accompanied by scale details for casements and composite steel windows for banks, office buildings, hospitals and residences.

Hope & Sons, Henry, 103 Park Ave., New York, N. Y.

Catalog. 12¼ x 18½ in. 30 pp. Illustrated. Full size details of outward and inward opening casements.

David Lupton's Sons Company, Philadelphia, Pa.

Lupton Casement of Copper-Steel. Catalog C-122. Booklet 16 pp. 8⅝ x 11 in. Illustrated brochure on casements, particularly for residences.

WINDOWS, STEEL AND BRONZE

The Kawneer Company, Niles, Mich.

Kawneer Simplex Windows. Catalog. 8½ x 10½ in. 16 pp. Illustrated. Complete information, with measured details, of Kawneer Simplex Weightless Reversible Window Fixtures, made of solid bronze. Shows installations in residences and buildings of all sorts.

Detail Sheets and Installation Instructions. Valuable for architects and builders.

Metal Windows. Catalog. 8½ x 11 in. 18 pp. Illustrated. Features double-lining and casement windows of metal.

David Lupton's Sons Company, Philadelphia, Pa.

A Rain-shed and Ventilator of Glass and Steel. Pamphlet, 4 pp. 8⅝ x 11 in. Deals with Pond Continuous Sash, Sawtooth Roofs, etc.

How Windows Can Make Better Homes. Booklet. 3⅞ x 7 in. 12 pp. An attractive and helpful illustrated publication on use of steel casements for domestic buildings.

Truscon Steel Company, 250 W. Lafayette Blvd., Detroit, Mich.

Truscon Steel Windows. Catalog. 8½ x 11 in. 80 pp. Illustrated. Contains complete data on all types of Truscon Steel Windows.

WOOD—See also Millwork

American Walnut Mfrs. Association, 618 So. Michigan Blvd., Chicago, Ill.

American Walnut. Booklet. 7 x 9 in. 45 pp. Illustrated. A very useful and interesting little book on the use of Walnut in Fine Furniture with illustrations of pieces by the most notable furniture makers from the time of the Renaissance down to the present.

Real American Walnut Furniture. Folder. 8½ x 11 in. 4 pp. Illustrated. Tells how to identify the genuine and avoid the substitute in buying "Walnut" furniture.

California White and Sugar Pine Mfrs. Assn., San Francisco, Calif.

Information Sheet No. 1, California White Pine; Information Sheet No. 2, California Sugar Pine. Illustrated booklets 8 x 10½ in. First of a series of Information Sheets on these woods and their uses for construction and finish.

Introducing "Cal" Pine, Guardian of the Grades. Booklet, 50 pp., 7¾ x 10¾ ins. Illustrated. Valuable data on siding, battens, flooring, mouldings, etc.

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Curtis Companies Service Bureau, Clinton, Iowa.

Better Built Homes. Vols. XV-XVIII, incl. Booklet. 9 x 12 in. 40 pp. Illustrated. Designs for houses of five to eight rooms, respectively, in several authentic types, by Trowbridge & Ackerman, architects, for the Curtis Companies.

Long-Bell Lumber Co., Kansas City, Mo.

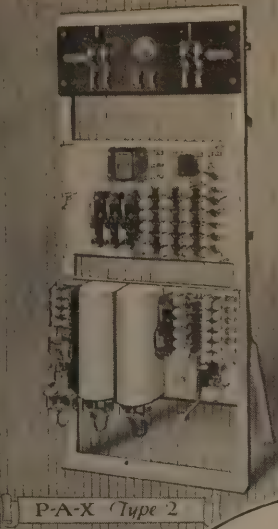
The Perfect Floor. Booklet 5¼ x 7¾ in. 16 pp. Illustrated. Valuable for the data given on the use of wood for floors.

Saving Home Construction Costs. Booklet 4⅛ x 7½ in. 24 pp. Discusses economy and value in domestic building.

Experiences in Home Building. Booklet 6 x 9 in. 16 pp. Records the testimony of a number of builders and contractors as to the value of certain materials.

The Post Everlasting. Booklet 8 x 11 in. 32 pp. Illustrated. Describes the production of posts and their use in various ways.

WOOD FINISHES—**See Paints, Varnishes, Stains**



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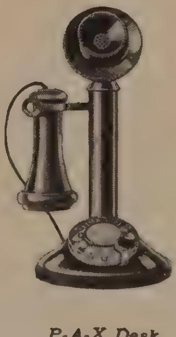

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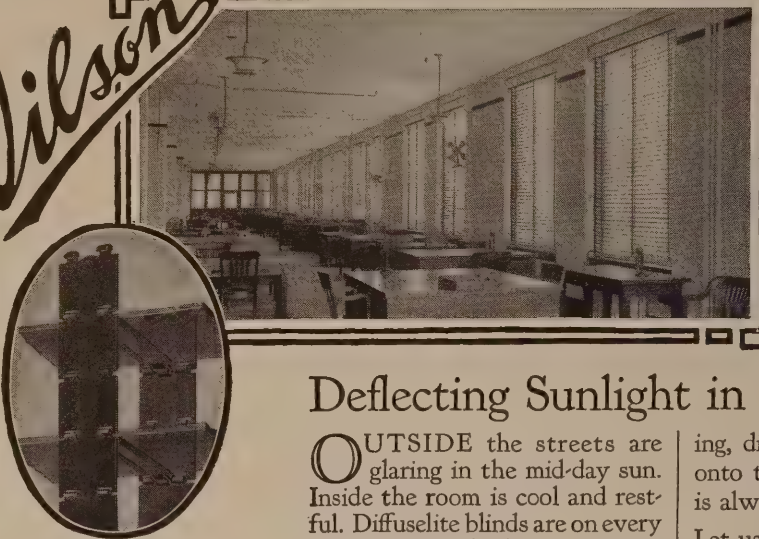

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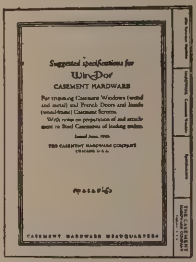

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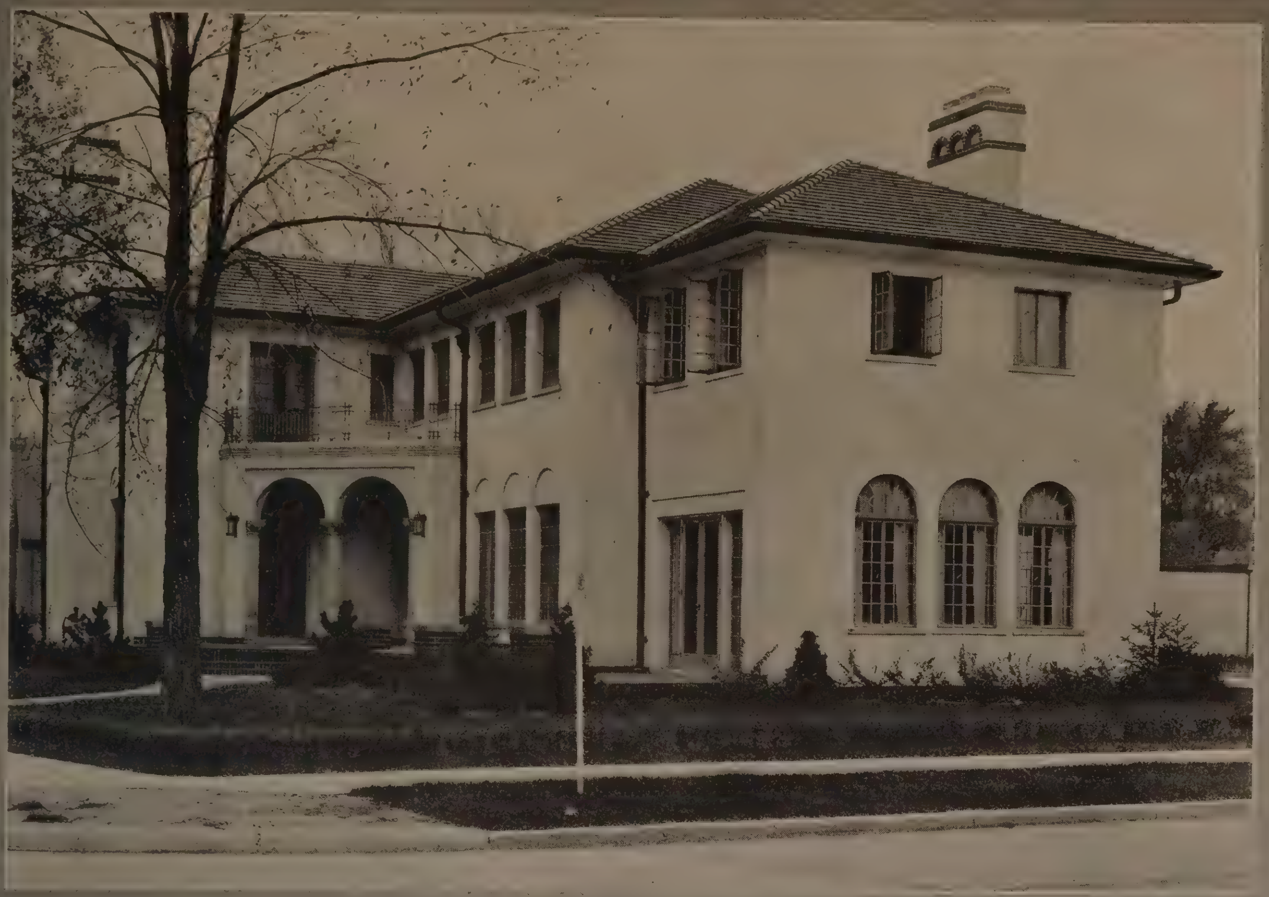

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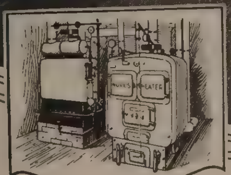

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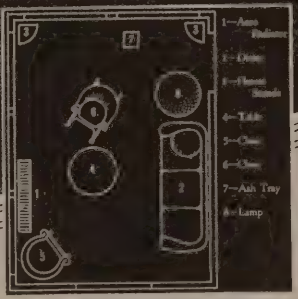

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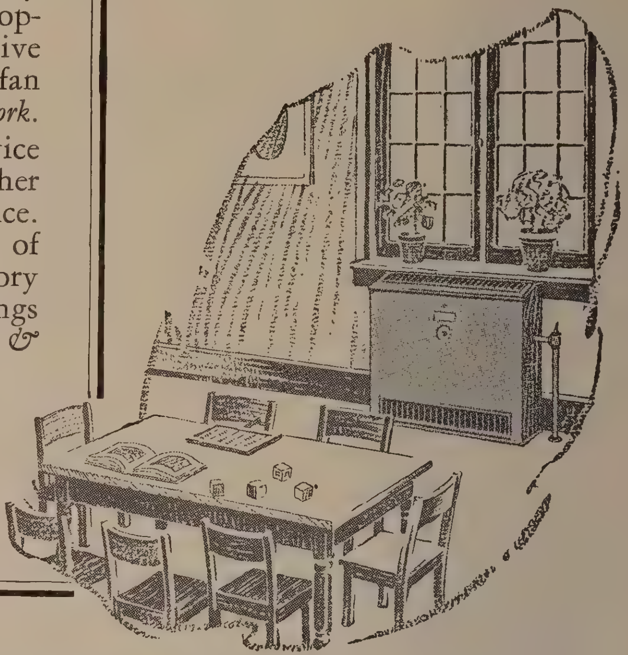

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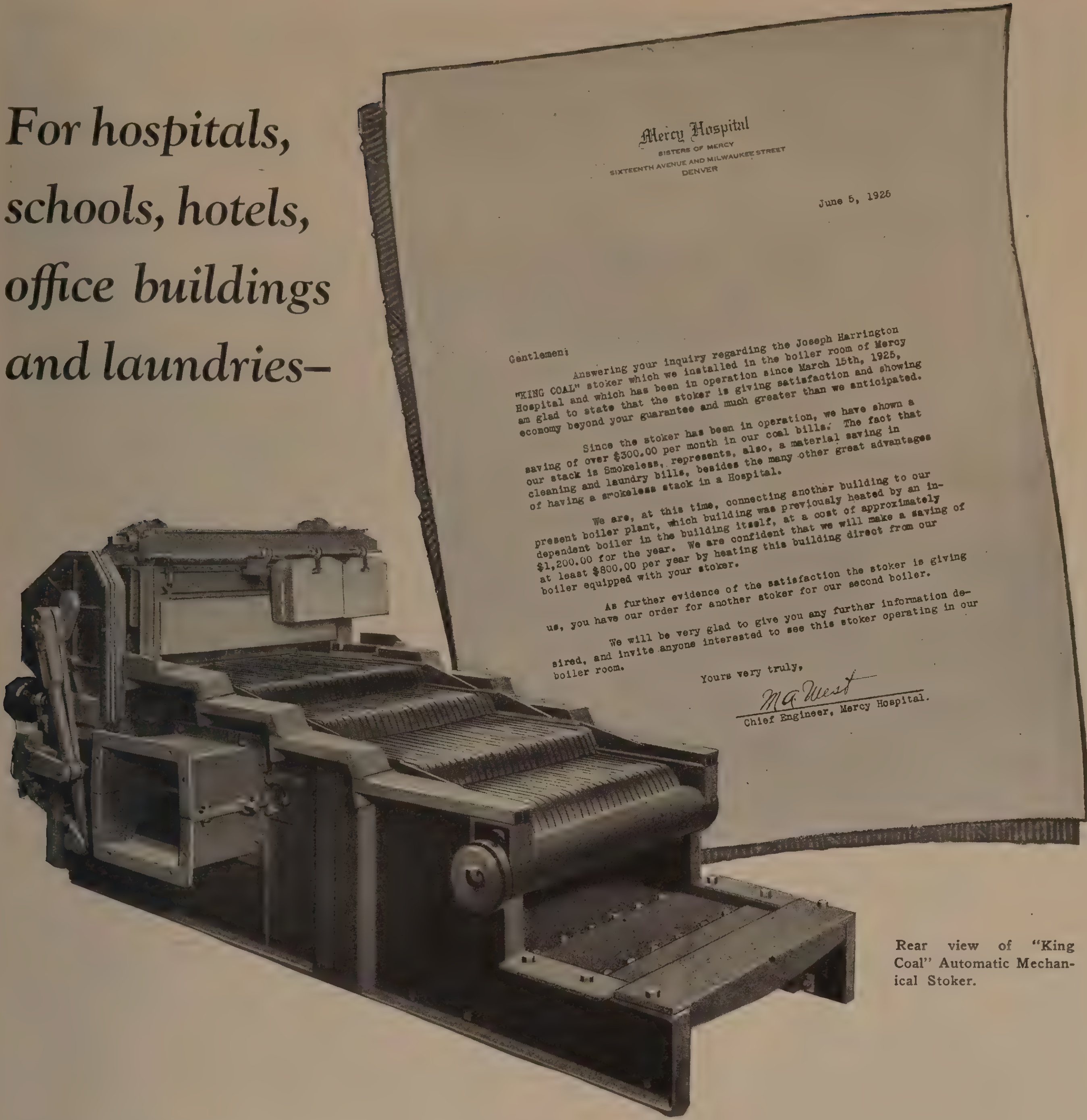

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June 5, 1926

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Answering your inquiry regarding the Joseph Harrington "KING COAL" stoker which we installed in the boiler room of Mercy Hospital and which has been in operation since March 15th, 1925, am glad to state that the stoker is giving satisfaction and showing economy beyond your guarantee and much greater than we anticipated.

Since the stoker has been in operation, we have shown a saving of over $300.00 per month in our coal bills. The fact that our stack is Smokeless, represents, also, a material saving in cleaning and laundry bills, besides the many other great advantages of having a smokeless stack in a Hospital.

We are, at this time, connecting another building to our present boiler plant, which building was previously heated by an independent boiler in the building itself, at a cost of approximately $1,200.00 for the year. We are confident that we will make a saving of at least $800.00 per year by heating this building direct from our boiler equipped with your stoker.

As further evidence of the satisfaction the stoker is giving us, you have our order for another stoker for our second boiler.

We will be very glad to give you any further information desired, and invite anyone interested to see this stoker operating in our boiler room.

Yours very truly,

MG West

Chief Engineer, Mercy Hospital.

Rear view of "King Coal" Automatic Mechanical Stoker.

The "King Coal" Automatic Stoker Means a Smokeless Stack

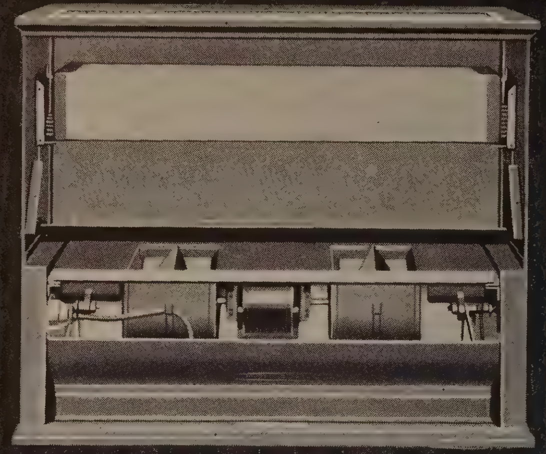
For any boiler plant from 40 to 250 rated horsepower, this new stoker—outgrowth of the twenty-five years' experience of Joseph Harrington—means a smokeless stack—proper combustion—economy. Dozens of installations are proving this in daily service.

The "King Coal" is simple—only three moving parts; easily adjustable to varying load conditions; operates equally well with forced or natural draft; is easily installed under old boilers; cost proportional to its small size.

The savings in fuel and labor will usually pay for the "King Coal" stoker in less than a year. Our new catalogue number 100 showing complete details of the "King Coal" and illustrating a variety of installations will be of direct value to any architect, particularly if you are working on schools, hotels, apartments, etc., where smoke elimination has so many advantages in addition to economy. Why not let us send you a copy?

JOSEPH HARRINGTON COMPANY *(Subsidiary of Whiting Corporation)*
HARVEY, ILLINOIS (CHICAGO SUBURB)

A F 11—Gray



now — The Universal Heating and Ventilating unit—*with quiet-operating single phase motor!*

Thirteen years of satisfactory operation in schools and other public buildings have proven the Universal Heating and Ventilating Unit —have made it famous for effective control of temperature, reliability, simplicity and economy.

Now, the development of a quiet-operating single-phase motor, mounted metal to metal on a steel board with three point lead mounting eliminates the need of a motor generator set, complicated switchboards, wiring, etc., and insures *quiet operation* under *all* conditions.

Universal Heating and Ventilating units are suitable and highly recommended for school and public building work—they are backed by the American Blower Company's reputation and resources—and sold through the nation-wide American Blower Sales and Engineering organization.

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BRANCH OFFICES IN ALL PRINCIPAL CITIES
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"Sirocco" VENTILATING, HEATING, AIR CONDITIONING, DRYING, MECHANICAL DRAFT
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FOR the same reason that glass has been used for centuries, to let in the sunlight, independent of the vagaries of the weather, the Univent is used, today, to bring outdoor air directly into the room, without regard to storms, snow, rain, smoke, dust and nerve-wracking outdoor noises.

Univent and Glass make the difference between primitive life, where man must take what nature gives him — and modern life, with the enjoyment of fresh, clean, comfortably warmed outdoor air, within the protecting walls of the schoolroom.

Your pupils and teachers can enjoy air with all its outdoor vigor, every day of every season, in schoolrooms equipped with the Univent. Thousands of schoolrooms know its benefits today, and recognize, in the Univent, the highest and yet the simplest development of Ventilation.

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possess all the necessary factors that make for efficient ventilation—low first cost, no upkeep, no moveable parts to get out of order. They are sturdily constructed and under ordinary circumstances outlast the building on which they are erected.

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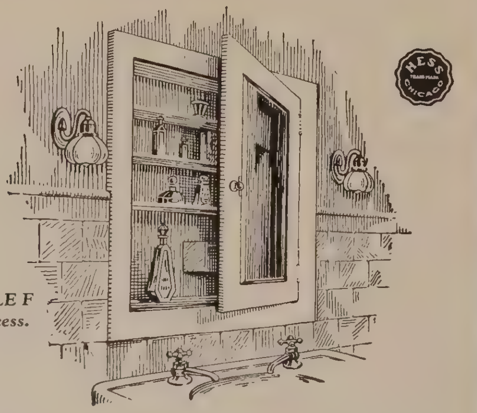

HESS Cabinets and Mirrors are suitable for the finest bathrooms, at prices to fit the ordinary income.

Sold by local dealers every. If you cannot find them at home, write for particulars.

Write for catalogue; or See Sweet's Index.

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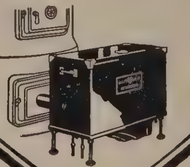
Makers of Hess Welded Steel Furnace.
1216 S. Western Avenue, Chicago

What an Architect Wants to Know About Oil Heating

You'll find it in a crisp folder filled with accurate information concerning the modern, efficient, cleanly and convenient method of heating homes. Your free copy of Facts for Architects will be gladly forwarded upon request.

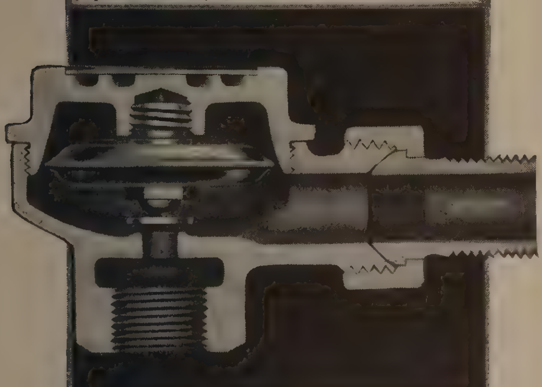
Also makers of the Hart Electric Icer, a companion product



HART OIL BURNER

W. B. WILDE CO.
2159 North Adams Street
Peoria, Illinois

The Wooden Horse of Troy
looked all right from the outside, so the Trojans wheeled it into their city. Inwardly the horse was filled with Greek soldiers who in the night opened the city gates to their countrymen.



All right from the outside

IT IS impossible to judge a radiator trap by externals. The inward design and construction—the operating member in particular—determine how trouble-free a trap may be.

A radiator trap may look all right from the outside, but inwardly, like the famous Trojan horse, it may be filled with trouble.

The sectional illustration at the left shows clearly the *internal advantages* of the Dunham Trap. Note its large valve opening—its floating valve and rounded seat. Observe how these combine to insure tight closing even when scale or other incrustants are present in the heating system. Due to the shape and material of the operating member the seat closes squarely *always*.

Non-corrosive metals are used for all parts in contact with steam, phosphor bronze being the material in the Dunham disc. (The body of the Dunham Trap is distinctive, being made of bronze, the best of all metals for this purpose.) Small wonder the long life of these traps is proverbial in the heating field.

The Dunham Trap was *first* to use the fluid thermostatic principle, and also was first to utilize the floating valve and other features here described. *In quality of materials, in workmanship, and in service performed, the Dunham Trap has always led all its imitators.*

Look for the name DUNHAM

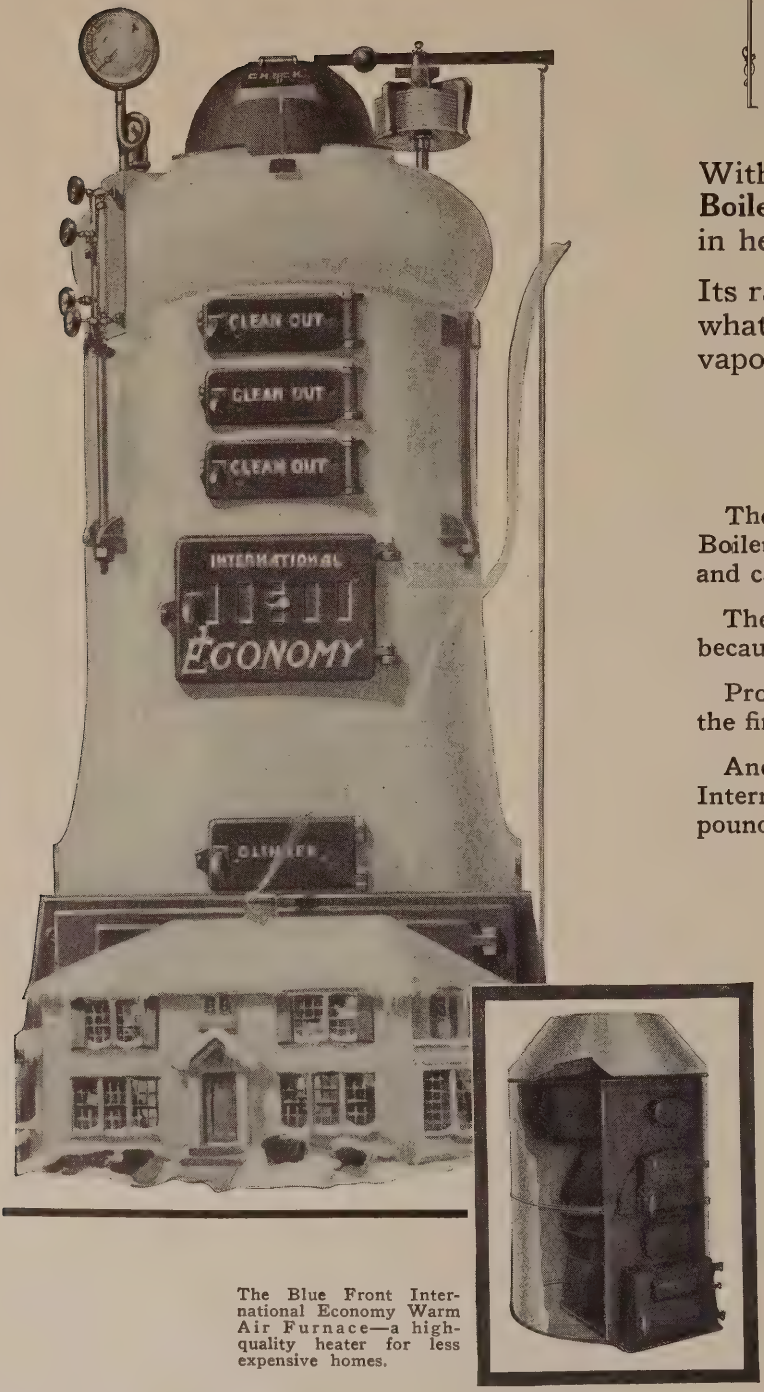
This nameplate identifies a genuine Dunham Thermostatic Radiator Trap. It is placed on the Dunham Trap for your protection and it is your assurance of the Dependability and Satisfaction which characterize Dunham Heating Service.

Over sixty branch and local sales offices in the United States and Canada bring Dunham Heating Service as close to you as your telephone. Consult your telephone directory for the address of our office in your city.

C. A. DUNHAM CO.
DUNHAM BUILDING
450 East Ohio Street ∾ ∾ ∾ Chicago

Depend on this Boiler to Deliver Heat Satisfaction

International Guaranteed Ratings cut out all guess work as to proper size



The Blue Front International Economy Warm Air Furnace—a high-quality heater for less expensive homes.

With the **International Economy Round Boiler** you can safely promise the utmost in heating efficiency to your clients.

Its ratings are *guaranteed.* You *know* just what size boiler is required for steam, vapor, or hot-water heat.

Its Heating Efficiency Delights the Owner

The way the International Economy Round Boiler delivers heat at a minimum of expense and care, pleases the owner of the house.

The ample coal capacity means fuel economy because of slower, even burning.

Proper combustion is insured by the shape of the firepot and the air control.

And the high heat absorption power of the International Economy turns every possible pound of fuel into heat for the house itself.

Easy to Care for

Because the ample fuel carrying capacity, for any kind of fuel, permits long firing periods, and because every part of the boiler sections is accessible for easy cleaning, the International Economy is the perfect round boiler for home installations.

Economy boilers have been endorsed by leading engineers in the oil burner industry as being unusually efficient with oil burners because of their large combustion space and long flue travel.

Architects and heating engineers are invited to send for Catalog 1746-F, which describes the various models in detail.

INTERNATIONAL HEATER CO.
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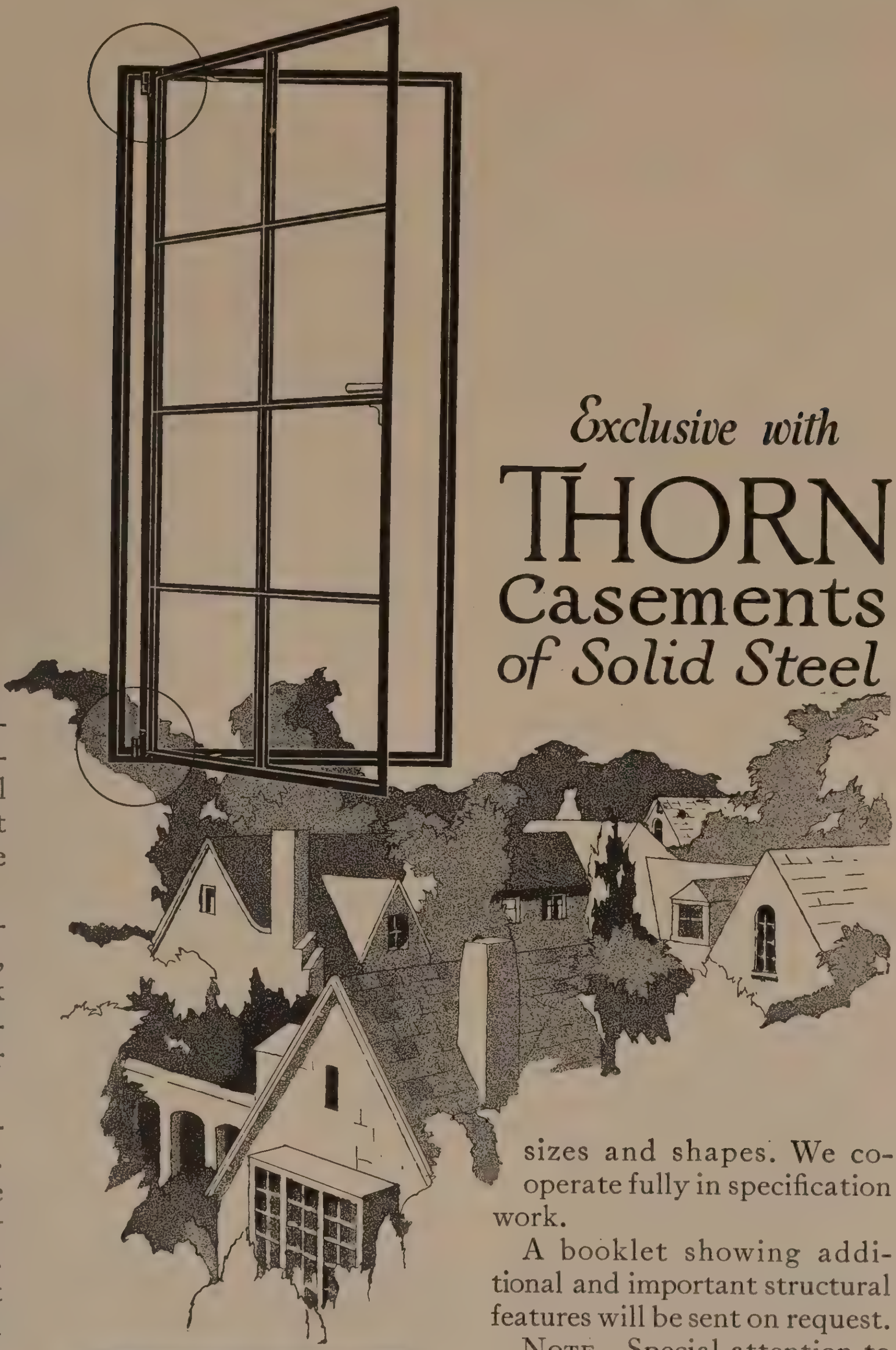
STEAM AND HOT WATER BOILERS, WARM AIR FURNACES AND ONEPIPE HEATERS

The Beauty of the Thorn flat Hinge



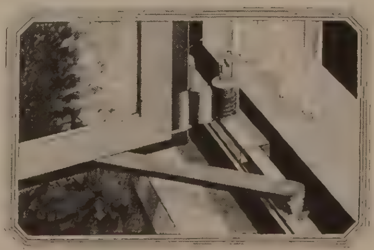
Exclusive with THORN Casements *of Solid Steel*

It is FLAT—flat as a well-made door hinge, with no protruding metal elbow to spoil the symmetry of the casement or break the smooth long line of the frame.

As the "leaf" of the casement swings steadily outward, it slides on its concealed track till the outer side of the window is easily available for cleaning.

It is the very essence of inconspicuous, efficient service.

No other hinge is like the Thorn hinge, nor does any other combine its many virtues. Before ever a Thorn casement leaves the factory, the Thorn hinge has been given a permanent adjustment, making leaf and frame as tight and snug-fitting against the weather as a joint can be. How much that means can be appreciated by those who have seen curtains billow and rain swish in through the tiny cracks of an ill-fitted, non-adjusted window.



Casement windows at their best are the finest type of window known. They are becoming increasingly favored as this fact is appreciated. But the casement used must be a *good* casement, and a Thorn casement of solid steel fulfills requirements.

Thorn casements are available through regular builders' supply channels in all special sizes and shapes. We cooperate fully in specification work.

A booklet showing additional and important structural features will be sent on request.

Note—Special attention to designs harmonizing with Period architecture—Gothic, English, Spanish, etc.

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Gentlemen: I would like to know more about Thorn Casements. Kindly send me your free booklet.

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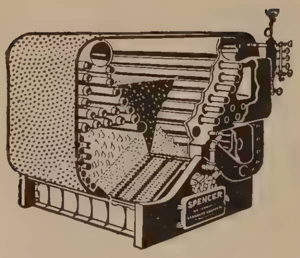
The beauty of it is that his client, too, can compute for himself this certain saving easily and accurately. All he needs to do is to subtract the price he pays for No. 1 Buckwheat Anthracite from that of the larger sizes of the same good coal—the sizes he has always thought he had to burn.

This difference, which averages $7 per ton, makes a handsome annual saving in the coal bill of even a modest home. In a large residence, or a church, office, apartment, or institutional building the total becomes important as well as impressive. Ten or twenty years of such savings will make a valuable contribution to the estate.

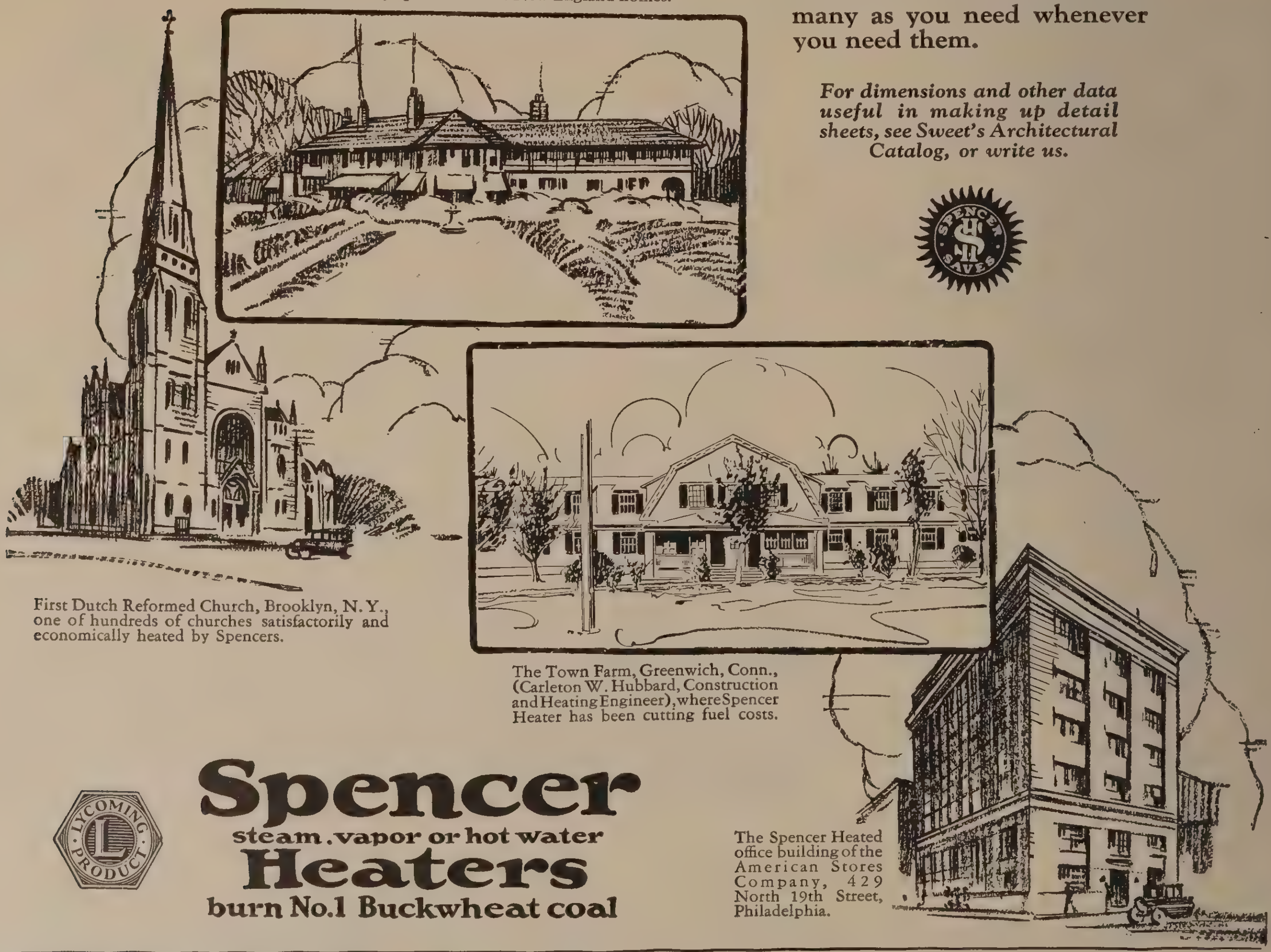
But the advantages of a Spencer Heater only begin here with this undebatable saving. There are other economies due to the efficient Spencer design, quite important, if more technical. Then there are convenience and comfort features that for thirty odd years have aroused the enthusiastic approval of Architects and thousands of Spencer owners.

These features and many important phases of the heating problem are treated in greater detail in "The Business of Buying a Heating System", a book of which you will want copies for yourself and for clients. Write for as many as you need whenever you need them.



Spencer Steel Tubular Heater

For dimensions and other data useful in making up detail sheets, see Sweet's Architectural Catalog, or write us.



The beautiful Gale residence, Swampscott, Mass., one of many Spencer Heated New England homes.

First Dutch Reformed Church, Brooklyn, N. Y., one of hundreds of churches satisfactorily and economically heated by Spencers.

The Town Farm, Greenwich, Conn., (Carleton W. Hubbard, Construction and Heating Engineer), where Spencer Heater has been cutting fuel costs.

The Spencer Heated office building of the American Stores Company, 429 North 19th Street, Philadelphia.

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steam, vapor or hot water
Heaters
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IN the comprehensive Fairbanks-Morse line of pumping equipment there is a complete range of types and capacities for meeting the requirements of building service. And with this equipment is offered an engineering service that is based on years of diversified experience with almost every type of specialized pumping. Near you is a Fairbanks-Morse engineer who is qualified to work with you in planning the most efficient pumping layout for any given service.

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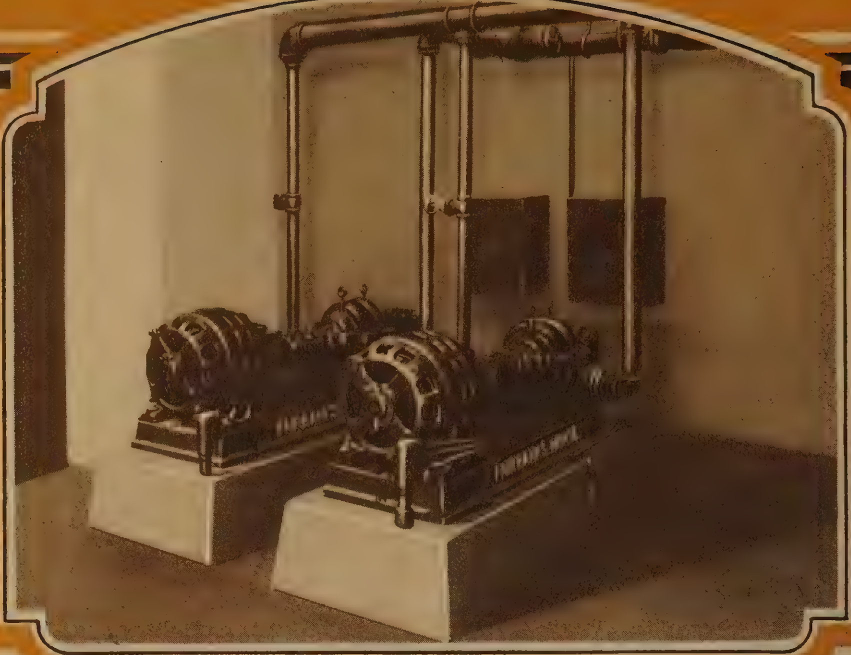
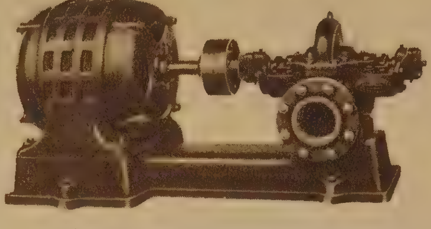


Two Fairbanks-Morse "Unit-Built" motor-pump combinations that are giving dependable, efficient service in the Louisiana National Bank Building, Baton Rouge, La.

Taking the uncertainty out of pumping

When you install a Fairbanks-Morse "Unit-Built" pumping combination, only the head and volume required need be considered. The problems of motor selection, choice of drive, etc., are automatically eliminated.

Such an installation forestalls all possibility of error. The motor is built by Fairbanks-Morse—balanced to the pump in F-M laboratories. Fairbanks-Morse is responsible not only for the pump and motor individually, but for the operation of the unit as a whole.



The Fig. 870 "Unit-Built" F-M pump-motor combination for high heads. Both pump and motor bearings are ball bearings. Ball-bearing units are also built for moderate heads

Typical of Fairbanks-Morse "Unit-Built" equipment is the Fig. 870 unit illustrated at the left. This is a pump-motor combination of exceptionally high efficiency for pumping against high heads. Both pump and motor are equipped with ball bearings which assure vibrationless operation and precise clearance between impeller and wearing rings as well as between rotor and stator in the motor. Units of this type are built in a wide range of pressures and volumes for building service.

Let us send you our 48-page bulletin "Pumps for Buildings" covering the range of F-M equipment and the breadth of F-M experience in the building field

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THE primary purpose of every swimming pool is to provide a means of pleasure, sport and enjoyable exercise. People go swimming because they want to—because they enjoy it.

To design beautiful pools, but forget about the most important thing—the comfort of the swimmers—defeats the true purpose of the pools.

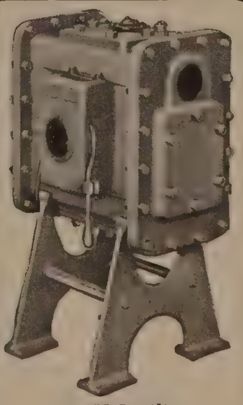
Architects who specify R-U-V Sterilization are assuring real comfort and pleasure for the pool users.

The water will be pleasant and refreshing. It will contain no biting, irritating chemicals. The swimmers will not complain of smarting eyes and tickling sensations in the nose. And the water will be purer than that specified by the U.S. Treasury Department Standards as pure drinking water.

Every drop of water that goes through R-U-V Sterilizers is perfectly sterilized. Quartz mercury vapor lamps produce powerful ultra violet rays that penetrate each drop, and instantly kill every disease-producing germ. But these rays do not in any way affect the taste, composition or feel of the water.

In addition, R-U-V Ultra Violet Ray Sterilizers set up a residual germicidal action that keeps the water pure after it is in the pool.

If you are interested in providing pure, refreshing water for the pools you design—water that contains absolutely no biting chemicals — water that feels just as nature intended it to feel — write for our latest swimming pool booklet. It will put you under no obligation.



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Sketch of a group of homes at Mt. Vernon, N. Y.
Built by L. Paulsen
A. J. Rogers, Architect

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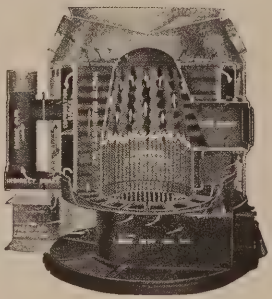
The architect's sketch of this group of homes promises unusual attractiveness. But you have to look at the basement plans to find out whether adequate provision has been made for year-round comfort.

The Kelsey Warm Air Generator specified for each of these livable houses will give these two vital things:



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plenty of it, even for top-floor rooms on the North-wind side.

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for everyone who breathes the fresh, automatically moistened air that the Kelsey keeps in constant circulation.

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Our booklets on "Kelsey Health Heat" are filled with data of value to architects. They are sent only on request. Just tell your secretary to "send for the Kelsey Heating Company's booklets."

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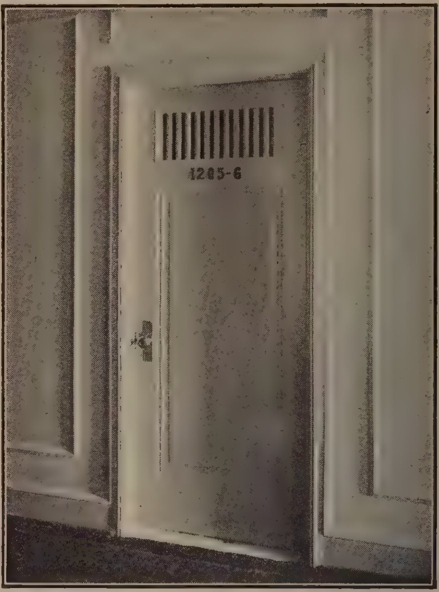

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A Ventilating Panel for Doors

Initial cost is a saving as compared with the old fashioned transom

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SMALL FAMILY HOUSES

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A PRESENTATION of the possibilities which the "Modern English Style" holds forth for use in designing and planning the suburban or country house of small or moderate size.

Fully illustrated with halftones of the exteriors and interiors of houses actually built in various parts of England; houses of different materials, and of a kind quite as appropriate for America; floor plans are included. An eminently practical book, useful alike to the architect and the home owner.

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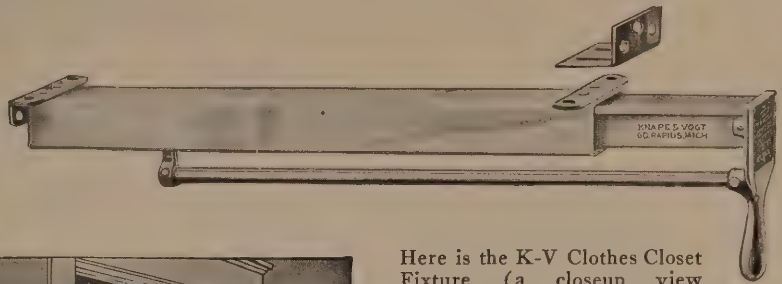
ROGERS & MANSON COMPANY
383 Madison Avenue, New York

Bettering the Clothes Closet

This is a typical old-fashioned clothes closet, with valuable garments hanging in an untidy manner from hooks or nails. Notice the space going to waste! Consider the wear and tear, the disorder. And yet, this same closet, equipped with a K-V fixture, would contain two or three times as many garments—and keep them clean and orderly.

CLOSET space looms just as big in building costs as the same amount of space devoted to living rooms, dining rooms or bedrooms. K-V Clothes Closet Fixtures have made the big closet obsolete. By their use, 20% to 30% can be salvaged from the over-all dimensions of the ordinary house. BETTER YET, houses with K-V equipped modern closets sell quicker because they possess an additional appeal for the far-seeing housewife. May we tell you more? Fill out the coupon and send it in—we have a real story for you!



Here is the K-V Clothes Closet Fixture (a closeup view above), and as it appears installed at the left. Made of heavy steel, nickle plated, it is built for service, and presents an attractive appearance. Its convenience speaks for itself—a powerful sales feature for the K-V equipped home! K-V fixtures come in sizes from 12 to 60 inches long. They cost little—but save thouands of cubic feet and hundreds of dollars in building costs!

The K-V fixture has made the modern closet as compact and convenient as a wardrobe trunk, with the capacity of a closet two to three times as large. Every inch of space is used. Clothes are suspended from the center. Wrinkles are eliminated, pressing bills reduced. Each garment is instantly available.

This booklet may contain several new ideas for architects who are keeping abreast of the times in home and apartment house construction. Send for it.

JUST FILL IN AND MAIL !

Knape & Vogt Mfg. Co.
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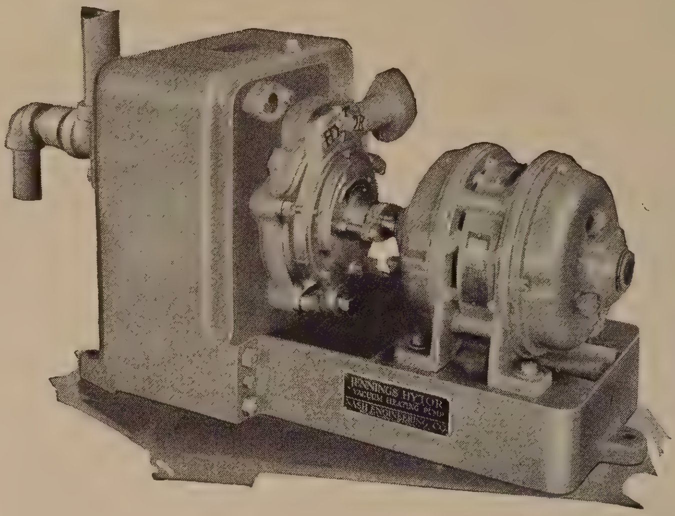
Send me your booklet, "Space Saving House Plans," with full information about how the K-V Clothes Closet Fixture reduces closet space, cuts construction costs, and makes houses so equipped more attractive.

Signed ....

Address ....

City and State ....

KNAPE & VOGT
MANUFACTURING CO.
DEPT. 211
Grand Rapids Michigan



Motor-Driven Jennings Vacuum Pump, Size M, for return line heating systems having up to 5000 sq. ft. equivalent direct radiation.

An ideal pump for your small jobs

By recommending the size M Jennings Vacuum Pump, you give your small return line steam heating jobs a heating pump embodying all the distinguishing features of our larger units.

Designed especially for handling up to 5000 sq. ft. equivalent direct radiation, the size M is simple, sturdy and compact. The only piping connections to be made are the return main, water discharge, and air discharge.

Air is removed independently of the water,—the air being discharged to the atmosphere without back pressure, and the water returned under pressure to the boiler.

Bulletin 25 describes this small size unit. Send for a copy.

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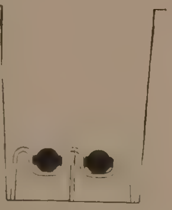
Jennings Pumps

RETURN LINE AND AIR LINE VACUUM PUMPS - CONDENSATION AND CIRCULATING PUMPS

Hands are Careless and Slow —Speed Them Up Make Them Accurate

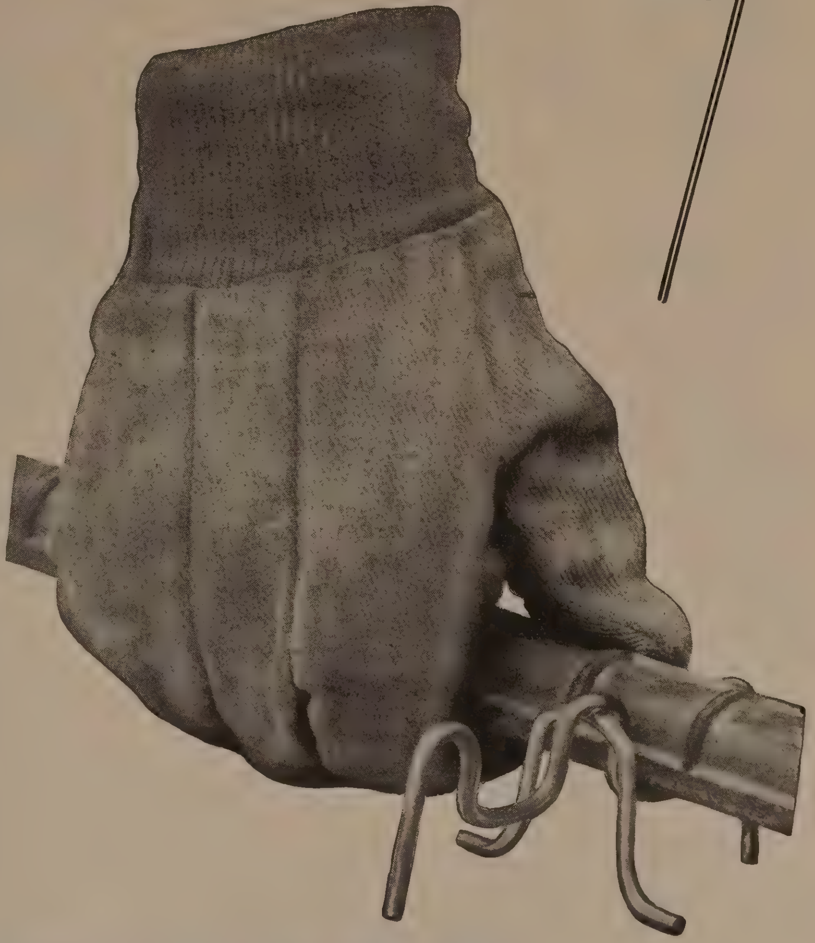


The Kalman Rib Chair fits between the pans or forms —the specified distances from the sides and bottom of the rib.

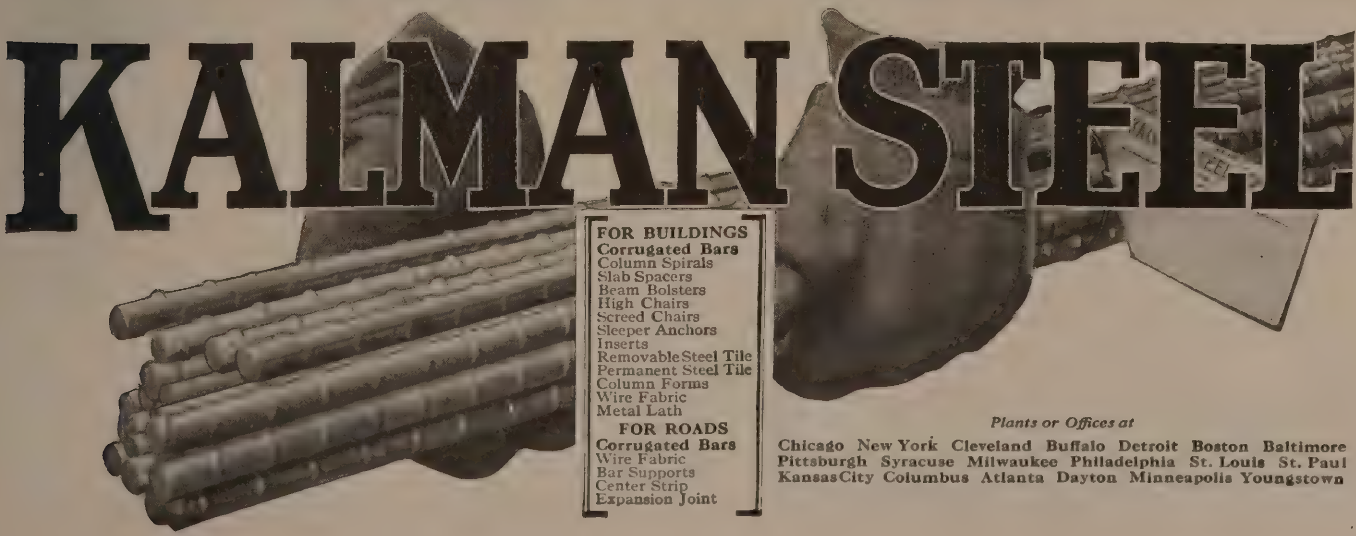
ACCURATE setting of reinforcing bars in ribbed slab construction is very important. But the hands that do this setting are often careless and slow. This means the danger of inadequate strength and wasted time for your contractors.

Kalman Rib Chairs assure full strength and speed up setting. It is easy to set them, because they are made to fit the ribs. And after Kalman Rib Chairs are set, the bars need only to be dropped into them. They hold the bars in the exact position specified. Kalman Rib Chairs require no nailing, and they do not interfere with the flow of concrete.

Write for a sample Kalman Rib Chair. It can show you how to make careless setting hands faster and more accurate.



KALMAN STEEL COMPANY, 1462 Wrigley Bldg., Chicago



KALMAN STEEL

FOR BUILDINGS
Corrugated Bars
Column Spirals
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Beam Bolsters
High Chairs
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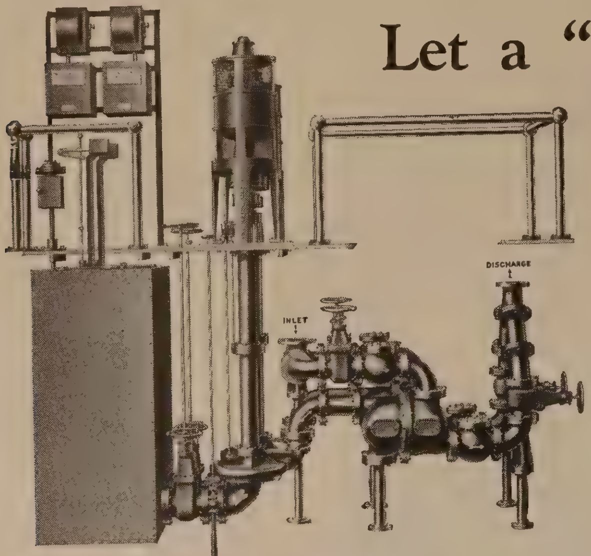
Inserts
Removable Steel Tile
Permanent Steel Tile
Column Forms
Wire Fabric
Metal Lath

FOR ROADS
Corrugated Bars
Wire Fabric
Bar Supports
Center Strip
Expansion Joint

Plants or Offices at

Chicago New York Cleveland Buffalo Detroit Boston Baltimore Pittsburgh Syracuse Milwaukee Philadelphia St. Louis St. Paul Kansas City Columbus Atlanta Dayton Minneapolis Youngstown



Patented and Patents Pending

Let a "Chicago Flush-Kleen" Do That Disagreeable Task

The distasteful task of cleaning a strainer basket on a Sewage Ejector is no longer necessary.

Illustration shows the Chicago "Flush-Kleen" Dry Basin Sewage Ejector unit. The "Flush-Kleen" entirely eliminates the old-fashioned strainer basket.

Let our Bulletin No. 126 tell you more about this splendid new unit based upon the "Flow-Reversal" method.

"Flush-Kleen" Dry Basin Sewage Ejectors are now giving satisfaction in the Saenger Theatre, New Orleans: The Rome School, Rome, New York; and the Merchants and Manufacturers Building, New York City. Simplicity in construction of the "Flush-Kleen" strainer has been proven in the above installations where not a moment's trouble has been experienced.

Ask for Bulletin 126 — Gladly furnished upon request

CHICAGO PUMP COMPANY

SEWAGE-CONDENSATION-CIRCULATING
BILGE-FIRE-HOUSE-VACUUM

OFFICE AND WORKS: 2316 WOLFRAM STREET :: :: CHICAGO, ILLINOIS

PEABODY MUSEUM OF NATURAL HISTORY
Day & Klauber, Architects, Philadelphia, Pa.

Interior of one Wing

Open type exhibit cases and habitat cases in the Great Hall and Wings as shown were made and installed by us in the NEW PEABODY MUSEUM, YALE UNIVERSITY.

Cabinets and cases of every description and design, installed to fit any requirements of space or purpose.

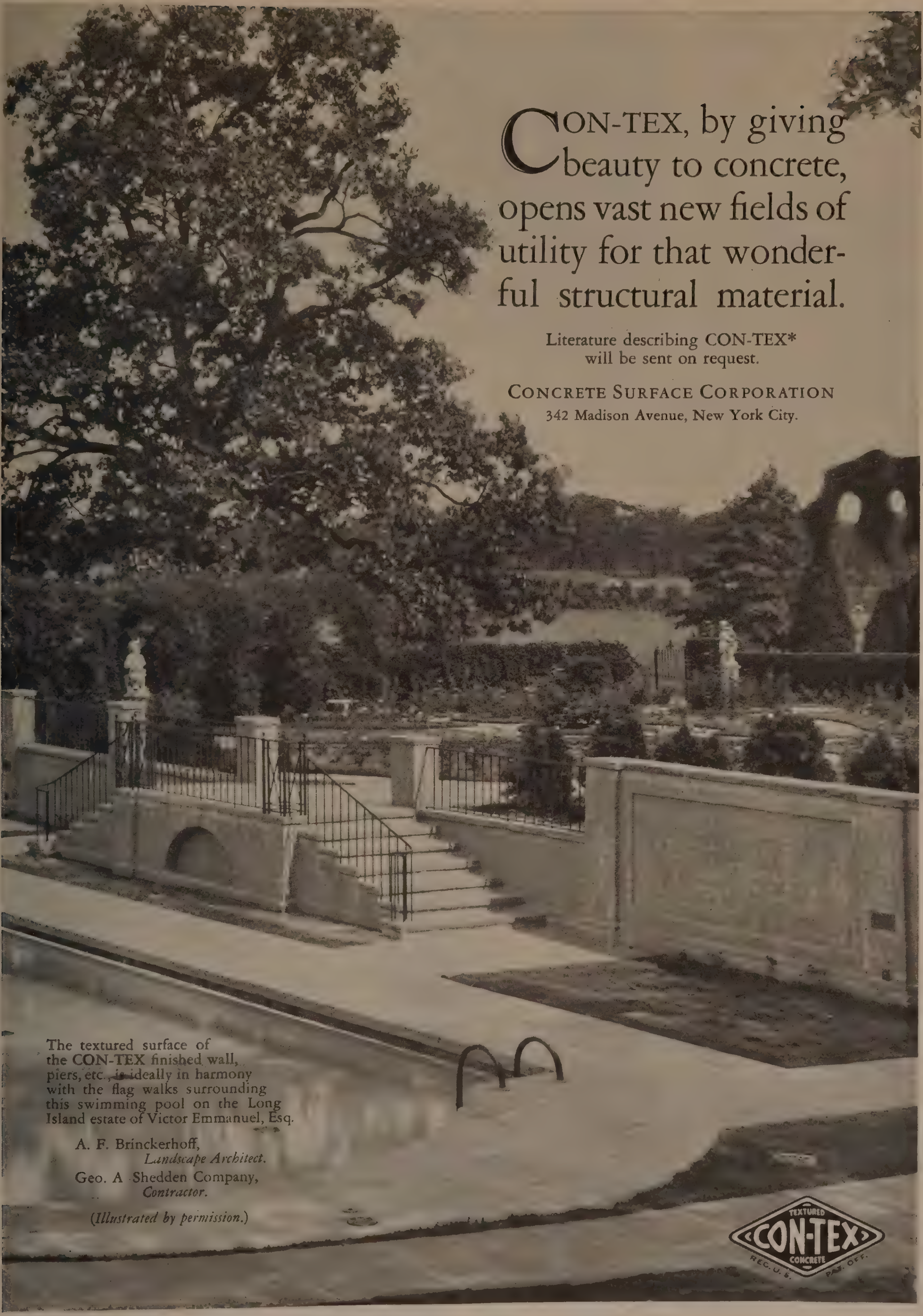
See American Institute of Architects Specifications, No. 35K for floor dimensions and roughing in

SEE OUR CATALOGUE IN SWEETS
For 1926 - 1927
Vol. 3.

The KNY-SCHEERER Corp. OF AMERICA

119-125 Seventh Avenue (Dept. 29) New York, N. Y.

TRADE MARK



CON-TEX, by giving beauty to concrete, opens vast new fields of utility for that wonderful structural material.

Literature describing CON-TEX*
will be sent on request.

CONCRETE SURFACE CORPORATION
342 Madison Avenue, New York City.

The textured surface of the CON-TEX finished wall, piers, etc., is ideally in harmony with the flag walks surrounding this swimming pool on the Long Island estate of Victor Emmanuel, Esq.

A. F. Brinckerhoff,
Landscape Architect.

Geo. A Shedden Company,
Contractor.

(Illustrated by permission.)

TEXTURED CON-TEX CONCRETE
REG. U.S. PAT. OFF.

**Note:* LICENSED UNDER PATENT RIGHTS OF NATHAN C. JOHNSON IN U.S. AND ABROAD.

A service wing of the residence of W. H. Whitcomb, Esq., Plainfield, N. J.

Patterson & Willcox, Inc., New York City, Architects.

The new way of SCREENING *the garage entrance*

HERE was a case where the architect got the most practical solution to a problem and found he had gained a very artistic effect as well.

This charming fence comes from France where it has been used for centuries to prevent trespassing. It is made of straight, *live,* young chestnut saplings, closely woven together. Retaining its natural appearance, it blends as readily as trees with all types of architecture. Its beauty and its gift for shutting out unlovely sights make it extremely adaptable to modern landscaping schemes.

Dubois comes in sections five feet long, in two heights, 4′-11″ and 6′-6″, with charming gates made to meet individual desires. It has very long life and requires no paint or upkeep expense.

Have you sent for your miniature Dubois for use with model houses? Free to Architects. Just specify length desired. No obligations.

***DUBOIS* Woven Wood Fence**

Imported from France solely by

ROBERT C. REEVES CO. 187 Water Street, New York

Robert C. Reeves Company, 187 *Water Street, New York*

Gentlemen: I think we should have that illustrated Dubois portfolio you issue free. Please send us one.

Firm __________

Name __________

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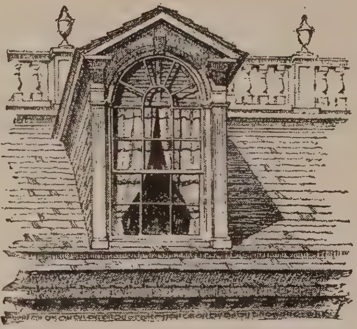
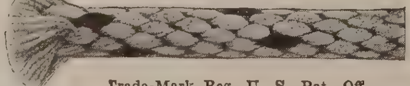


Original Colonial Dormer of Post Revolutionary period

The DORMER should be Beautiful—*and Useful*

Beauty, for it is prominent. Utility, because it must admit light and air to the attic. Double-hung Windows permit controlled ventilation, all-over outside screens, and standard awnings. Hang them for at least twenty years with dependable

SAMSON SPOT SASH CORD



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SAMSON CORDAGE WORKS

88 BROAD STREET BOSTON, MASS.

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Make yourself the leading homebuilders' counselor of your community—give the *right* answer to every homebuilder's problem, and you'll have more work than you can do—at your own prices.

That's why it pays you to recommend KEWANEE for any job of private water supply, electric light or sewage disposal—from bungalow to country estate or club. Over 200 systems and our quarter century of experience insure a correct job for every man's need.

Our Architect's Specification Book enables you to plan any installation of private water supply, electric light or sewage disposal. KEWANEE special engineering counsel is free—at your request.

Write for the KEWANEE Specification Book NOW

KEWANEE PRIVATE UTILITIES CO.

442 Franklin St., Kewanee, Ill.

KEWANEE

"Bungalow Model"

Water Supply System

Now $140

A Standard Slat Conveyor Made In North St. Paul Assists In The Making of Penn Springs

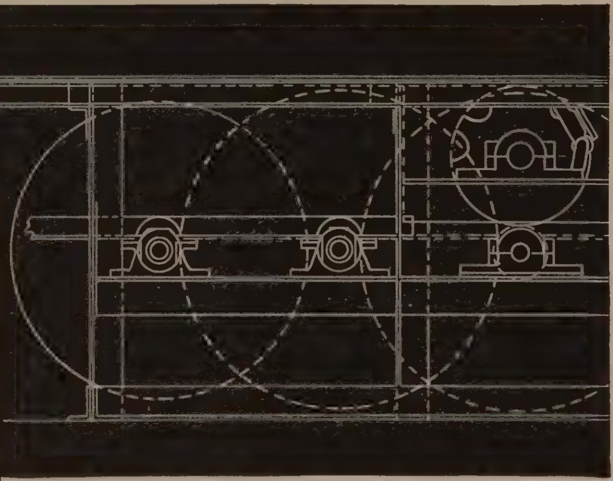
In Baldwinsville, New York, The Pennsylvania Spring Works employs skilled labor and expert mechanics. Exacting tests are used to determine the quality of steel and materials used in their products.

That their skilled workmen may accomplish all that they are capable of, and thus justify liberal wages; that their materials may remain high in quality, it is necessary that the cost of assembling of which handling is the greater part, be kept at a minimum.

A Standard assembly slat conveyor is shown in the picture to the left. It moves slowly, but steadily, to and past each workman who plays a part in the assembly picture. The result is that each man does his bit without walking, reaching, lifting, pushing, shoving or other non-essential effort.

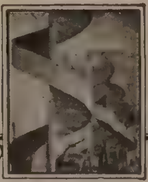
He builds Penn Springs.

The busines end or drive mechanism of this slat conveyor is shown in the drawing. It supplies the driving power or brute strength that does the handling which industries realize high priced men cannot do economically.



We will gladly send an analysis of this installation to the architect interested in cutting his clients' handling costs.

STANDARD
CONVEYOR COMPANY,
NORTH SAINT PAUL, MINN.



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51 Years of Use
Shows No Deterioration

Pipe in use underground in Lynn, Mass., from 1874 to 1925. Removed when building was torn down. Exterior badly corroded, interior clean and of original diameter.

Typical of what may be expected of

CEMENT LINED PIPE

Costs one-half as much as brass.

Used by ninty-four cities and towns with corrosive waters for service lines under permanent streets.

CEMENT LINING now furnished by Cast Iron Pipe manufacturers in pipe to be used for corrosive waters.

Standard Fittings only are used. Furnished with a special shaped lead lining for making perfect contact with cement lining in pipe.

CEMENT LINED PIPE in buildings for cold water lines is economical and permanent. It serves equally well for hot water and most acids.

CEMENT LINED PIPE CO.
LYNN, MASS.

Hamlinized

Edge tight sound proof DOORS and folding partitions

MODERN ARCHITECTS
Specify Hamlinized Doors

Southwestern Baptist Theology Seminary, Fort Worth, Tex.

See Sweet's Catalog or write for full details.

Equipped with 75 HAMLINIZED Doors.

Wyatt C. Hedrick, Architect & Engineer.

IRVING HAMLIN
1506 Lincoln Street
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Holtzer-Cabot
BANK PROTECTION SYSTEMS

There is an immediate and URGENT need for the Holtzer-Cabot Bank Alarm System in EVERY bank not so equipped.

The installation — the cost of which may be negligible compared to one successful hold-up —has a many-fold effect. Veteran bandits, of whom there are a great many, give banks so equipped a wide berth, the risk is too great. The amateur hold-up man can be caught red-handed before he gets the cash or valuables— the action of this system is inconspicuous and operates without the bandit being aware. Depositors feel a greater sense of security when their bank is Holtzer-Cabot equipped.

Recommend that this bank alarm system be installed in all new bank construction and suggest the value to older clients in this field.

[A CONFIDENTIAL BOOKLET will be mailed to any reputable architect on request]

The HOLTZER-CABOT ELECTRIC Co.

Holtzer-Cabot

125 Amory Street
BOSTON. MASS.

6165 South State Street
CHICAGO. ILL.

This CRODON-*plated Ampinco Sink Strainer, manufactured by the American Pin Company Division, indefinitely resists the effects of scouring compounds.*

EXIT:

The Dingy Bathroom

PLUMBING fixtures and other architectural accessories finished in CRODON always retain their initial lustre without the necessity of using metal polishes.

Even sink strainers, constantly subject to the abrasive effects of scouring compounds, resist service wear indefinitely when CRODON-plated.

CRODON is a chromium electro-plate with a brilliant mirror-like lustre. Wiping with a cloth to remove grease or other foreign matter keeps a CRODON surface bright and clean. Because of its hardness, CRODON will out-wear ordinary finishes by many years. Unlike nickel-plate, it will not chip or peel and indefinitely resists high temperatures, steam, the majority of acids and all alkalis. CRODON prevents the formation of verdigris, and as no metal polishes are required, surfaces in contact with metal fixtures do not became stained.

Our Architects' Service Department will gladly give you detailed information about this remarkable permanent finish. Address the Chromium Corporation of America, 26 Broadway, New York City.

Specify CRODON *for:*

PLUMBING FIXTURES
BATHROOM ACCESSORIES
FLUSH VALVES
BUILDERS' HARDWARE
DOOR PLATES
DOOR KNOBS
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ELECTRIC LIGHTING FIXTURES
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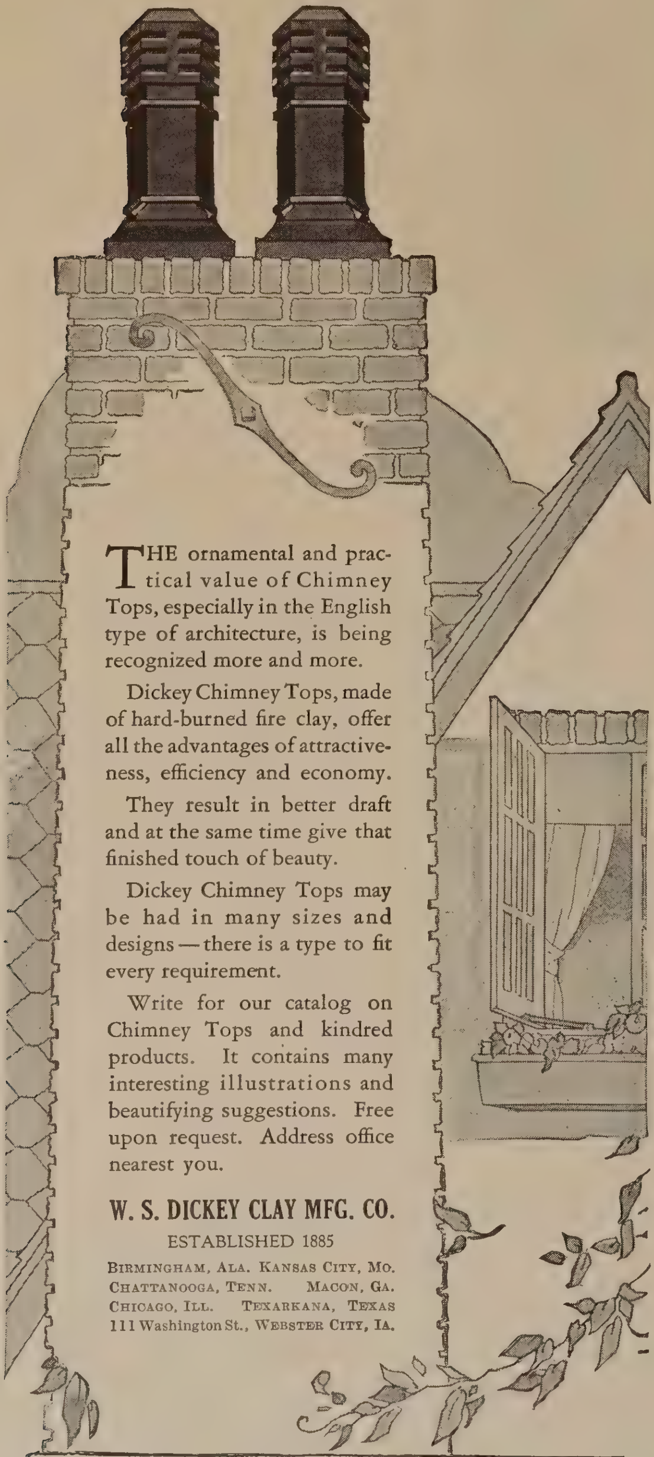
CUSPIDORS
and other Miscellaneous Exposed Metal Surfaces

CRODON
The Chrome Plate
Applied Only to Quality Products



That Finished Touch of Beauty~

THE ornamental and practical value of Chimney Tops, especially in the English type of architecture, is being recognized more and more.

Dickey Chimney Tops, made of hard-burned fire clay, offer all the advantages of attractiveness, efficiency and economy.

They result in better draft and at the same time give that finished touch of beauty.

Dickey Chimney Tops may be had in many sizes and designs—there is a type to fit every requirement.

Write for our catalog on Chimney Tops and kindred products. It contains many interesting illustrations and beautifying suggestions. Free upon request. Address office nearest you.

W. S. DICKEY CLAY MFG. CO.

ESTABLISHED 1885

Birmingham, Ala. Kansas City, Mo.
Chattanooga, Tenn. Macon, Ga.
Chicago, Ill. Texarkana, Texas
111 Washington St., Webster City, Ia.

DICKEY
CHIMNEY TOPS

Security Storage & Transfer Co. Bldg.; C. A. Houghtaling, Architect, Portland, Oregon

Whitest of Whites

This building is already a landmark in Portland on account of the brilliant whiteness combined with soft texture that distinguishes

Cabot's

DOUBLE-WHITE

This remarkable job is done with only two coats. Two coats of Double-White cover the surface as completely as three coats of lead paint. Double-White is a Cabot Colloidal Compound, with pigment so much finer than common ground paint that it penetrates into the pores of wood, concrete or brick and has such a hold that it will not crack or peel off. Fine, smooth texture; no brush marks; dries flat with no shiny effect.

Cabot's Old Virginia White

is the other Colloidal White for shingles, and also for stucco or brickwork where the "stain effect" is desired to preserve the natural texture of the material employed. Old Virginia White is the white of

Cabot's Waterproof Collopakes

which are made in a great variety of soft, pastel-like shades for decorating and waterproofing stucco, brick, stone and woodwork.

Samples and full information sent on request

Samuel Cabot
Incorporated
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Philadelphia Minneapolis Kansas City
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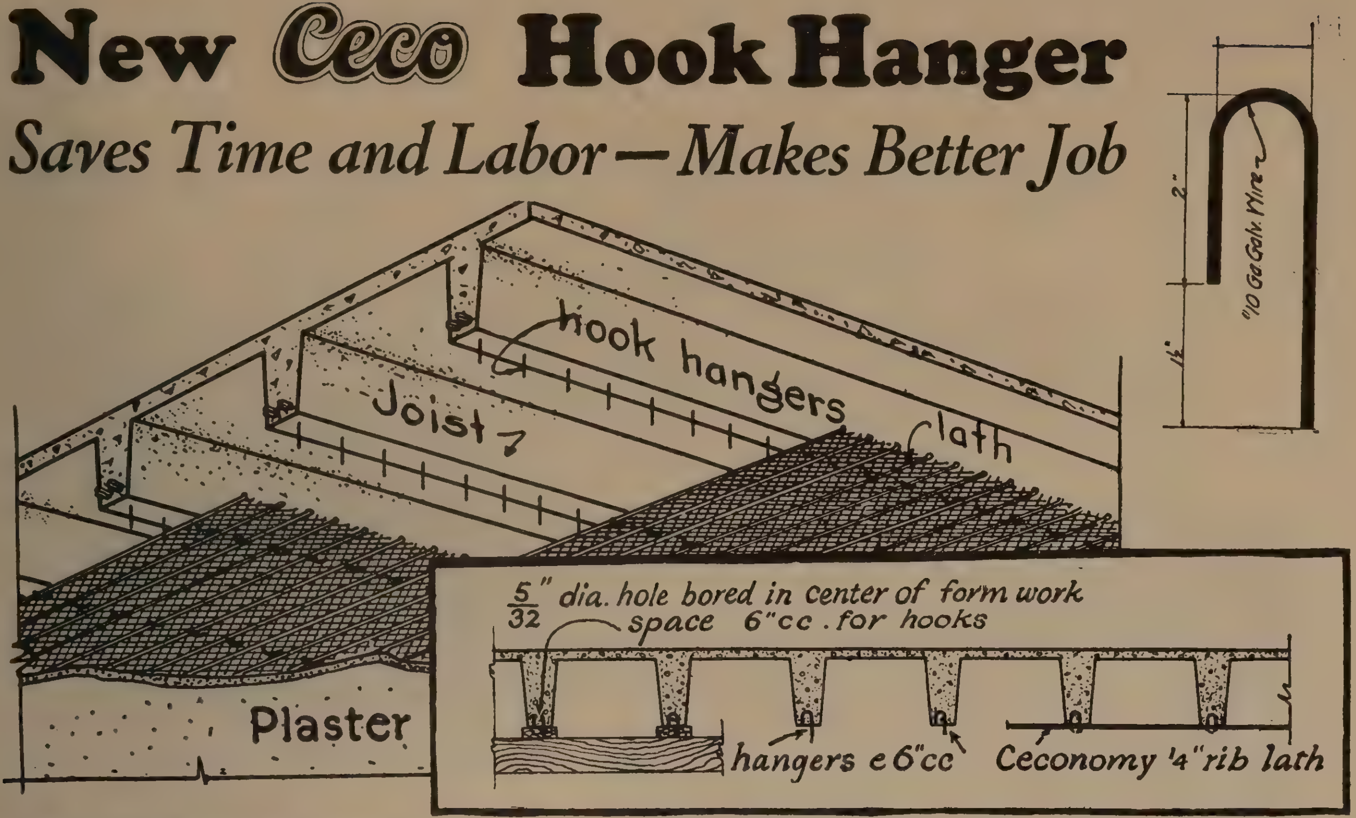
Other Colloidal Compounds

Cabot's Creosote Stains: The Original and Standard Creosote Wood-preserving Stains for Shingles and other Rough Woodwork.

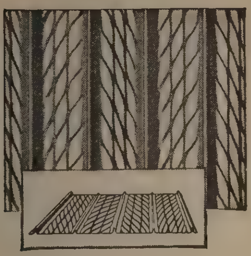
Cabot's Double Colors: Pure colors at the price of mixed paints.

New *Ceco* Hook Hanger

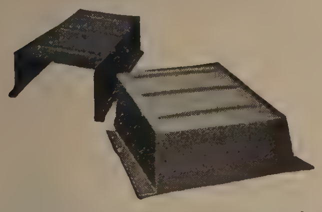
Saves Time and Labor—Makes Better Job



Detail Shows New Hanger Used with Meyer Steelform Construction



Ceconomy ¼-inch Rib Lath was especially designed for ceiling construction beneath Meyer Removable Steelforms. It meets the demand from contractors and architects for a metal plastering base which—(1) prevents plaster cracks, (2) is fire-resisting, (3) requires less plaster, and (4) is absolutely rigid.



Meyer Removable Steelforms. A Ceco product that is proving to architects and contractors everywhere the savings in concrete, steel, formwork, time and labor made possible by their use.

Ceco Reinforcing Bars are the most efficient type. They are rolled only from new billet steel, and are tested and approved by the Robert W. Hunt Company.

THE Hook Hanger Ceiling Construction (Above) involves the use of Ceco galvanized Hook Hangers and Ceconomy ¼-in. Rib Lath. This construction provides a most economical lath ceiling. It is strong and rigid, but must be brought up tight against the bottom of the joists. The elimination of channels and pencil rods, effects an economy in material and labor.

Place ten gauge Ceco galvanized Hook Hangers, 3½ inches long at four inches to six inches centers in the bottom of all joists. 5/32-in. holes for the reception of Hook Hangers are to be drilled in the soffiit boards, so that the forms may be readily removed, leaving the hangers projecting 1½ inches beneath the bottom of the concrete joists. Ceconomy ¼-in. Rib Lath may then be applied with the ribs against the concrete and each hanger shall be clinched around the meshes of the lath.

This type of ceiling construction is rapidly being adopted by architects and contractors everywhere, due to the particularly adaptable features of this new Ceconomy ¼-inch Rib Lath.

The new Ceco Hook Hanger has many advantages over the old style Hook Nail. It is made of No. 10 gauge wire instead of No. 11 gauge.

Its blunt end necessitates the drilling of receiving holes in the wood soffit pieces. This provides better workmanship, greater accuracy in the placing of hangers and increases the life of the form lumber.

It provides absolute and positive anchorage. The complete Hook gives an anchorage of 2 in. in the concrete.

The new hanger also provides a definite dimension of project on below the concrete joist, namely 1½ inch.

100 pieces weigh 2½ pounds.
4000 pieces per bag.
104 pounds weight per bag.
Order 35 lbs. per 1000 sq. ft. of ceiling area.

Our Handbook contains complete description of this and many other types of construction. A copy will be sent to you on request. Address Omaha office department 35.

CONCRETE ENGINEERING CO.

District Offices and Warehouses at

Omaha **Chicago** **Kansas City** **Detroit** **Des Moines**
Dallas **Milwaukee** **Minneapolis** **Houston** **St. Louis**

No. 26 of a series of advertisements featuring prominent laundry installations

They're *all* doing it!

The Penn Athletic Club. Philadelphia, Pa. Zantzinger, Borie & Medary, Architects

The entire washing for the Club is handled by this battery of American Cascade Washers.

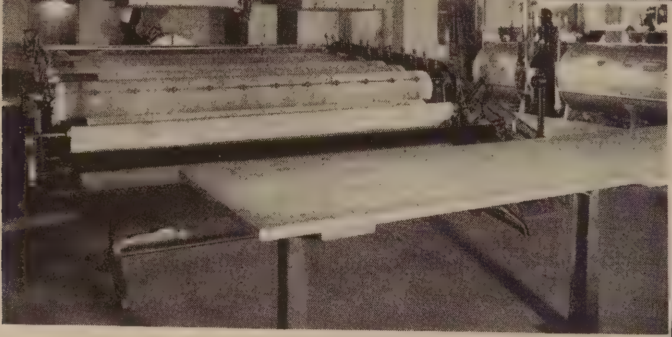
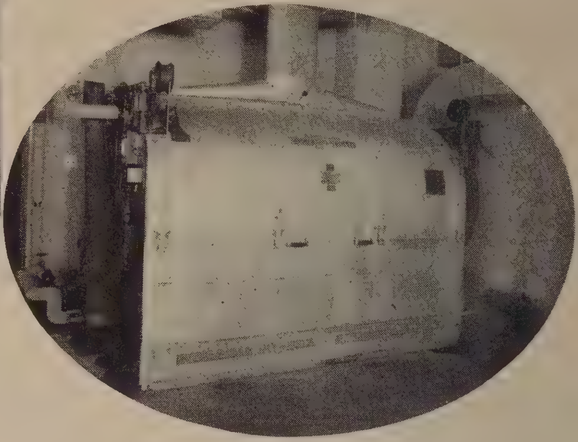


Table linens, bed linens and all other large pieces are ironed on this American Flat Work Ironer in the laundry of the Penn Athletic Club.



Bath towels, gym and bathing suits are fluffed dry, ready for use, in the American Thermo-Vento Drying Tumbler shown here.

CLUBS, hotels, hospitals, schools—every institution, large or small, where linens are used in any quantity now includes a laundry as part of the building plan. More and more, the operation of such a department has come to be regarded as the most efficient and profitable means of handling the daily wash.

And so in the handsome, new Penn Athletic Club at Philadelphia you'll find a completely equipped laundry, modern in every detail. "American" machines, which are used throughout turn out the linens swiftly, economically. The quality of the work is, of course, uniformly high, while frequent deliveries make it unnecessary to keep on hand large stocks of linens.

These are some of the benefits. The management of the Penn Athletic Club will gladly tell you of others. Or a card will bring you full details of this installation as well as of others featured in this series. Write!

AT YOUR SERVICE—

a corps of laundry specialists

The American Laundry Machinery Company maintains a corps of engineers who have gained wide experience in planning and equipping most of this country's foremost hotel, commercial and institutional laundries. If you have any questions pertaining to modern laundry practice you will find consultation with these specialists advantageous. This service is gladly offered you without any obligation whatever.

THE AMERICAN LAUNDRY MACHINERY COMPANY

Norwood Station, Cincinnati, Ohio

THE CANADIAN LAUNDRY MACHINERY CO., LTD.
47-93 Sterling Road, Toronto 3, Ont., Canada

Agents: BRITISH-AMERICAN LAUNDRY MACHINERY CO., LTD.
Underhill St., Camden Town, London, N.W.1, England

GIVE HEALTH

The most valuable and least expensive holiday gift that you can make

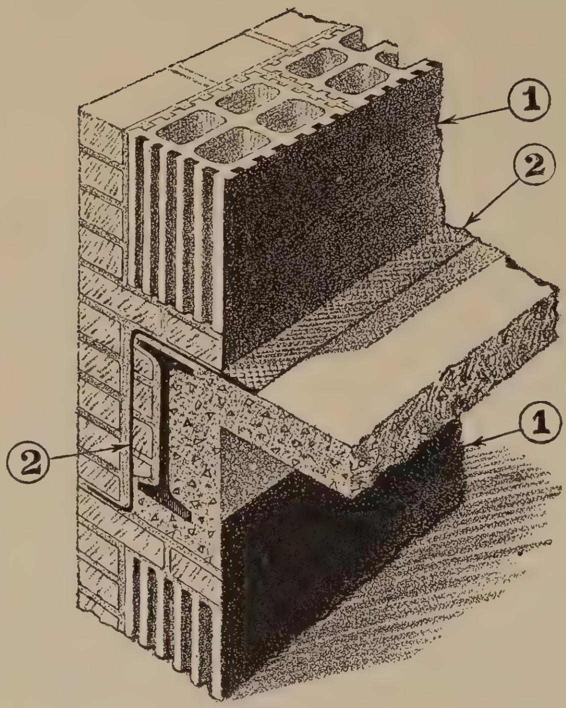
GIVE health as a Christmas present—to yourself, to every member of your family, and everybody in your community. You can! Buy Christmas Seals.

The work done by these tiny, mighty little seals has helped to cut the tuberculosis death rate by more than half.

Seal every parcel, letter and holiday greeting with Christmas Seals. Give health—and feel the joy that comes with the giving of man's greatest gift to his fellow man—healthy happiness now and for years to come.

THE NATIONAL, STATE AND LOCAL TUBERCULOSIS ASSOCIATIONS OF THE UNITED STATES

HORN·WATER·PROOFINGS



PROBLEM II

Damp-proofing Inside Surfaces of Exterior Superstructural Walls

Damp Interiors, disintegration of Plaster, and disfigurement of Decorations, resulting from penetration of moisture through exterior walls, prevented by scientific water-proofing design and construction.

SOLUTION

Permanently Seal the Walls from Ground Level to Roof

❶ Damp-proof Inside Surface of Exterior Walls: by applying to the inside surface a continuous waterproof and stainproof asphaltic coating, to which the plaster brown coat is directly applied and perfectly bonded.

This method eliminates necessity of furring and lathing.

For efficient damp-proofing the following materials are recommended:

(a) **Dehydratine No. 10**—Damp-proofing Trowel Coating for use on solid brick walls.

(b) **Dehydratine No. 10** (Semi-Mastic) — Heavy damp-proofing Brush Coating, for use on hollow back-up tile or stone surfaces.

❷ Waterproof the Spandrel Beams: (in skeleton construction), as above illustrated by means of a membrane composed of Dehydratine No. 10 and Tripleflex fabric.

This membrane extends through the entire wall, connecting with the wall damp-proofing as shown, is carried down face of beam filling and turned out on course of brick below bottom of beam; is flashed up on outside of wall and corner columns.

This membrane so installed, provides waterproof connection between wall damp-proofing on successive stories and thus effectively completes the water-proof sealing of the exterior walls of the structure.

SPECIFICATIONS

A. C. Horn Company's Standard Specification for solution of this and any other water-proofing problems furnished upon request.

A. C. Horn Company LONG ISLAND CITY, N. Y.
511 Horn Building

YOUNG
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PUMPS

They Give Years of Trouble-free Service

A Young Pump can be depended upon to deliver constant, uninterrupted service year after year with minimum attention.

The only attention it requires is an occasional oiling of the motor and pump bearings. The stuffing box needs packing only once in two or three years. In fact the ordinary fireman can easily take care of a Young Pump.

It is simple—and rugged. *Just one moving element performs these two important functions:* It creates a powerful suction on the return lines of the system. At the same time it maintains a standard discharge pressure of 20 pounds at the pump for discharge to boiler.

The motor is generously over-size to insure easy operation under the heaviest possible condensation load. Each Young Pump is capable of discharging water four times faster than its normal rated capacity.

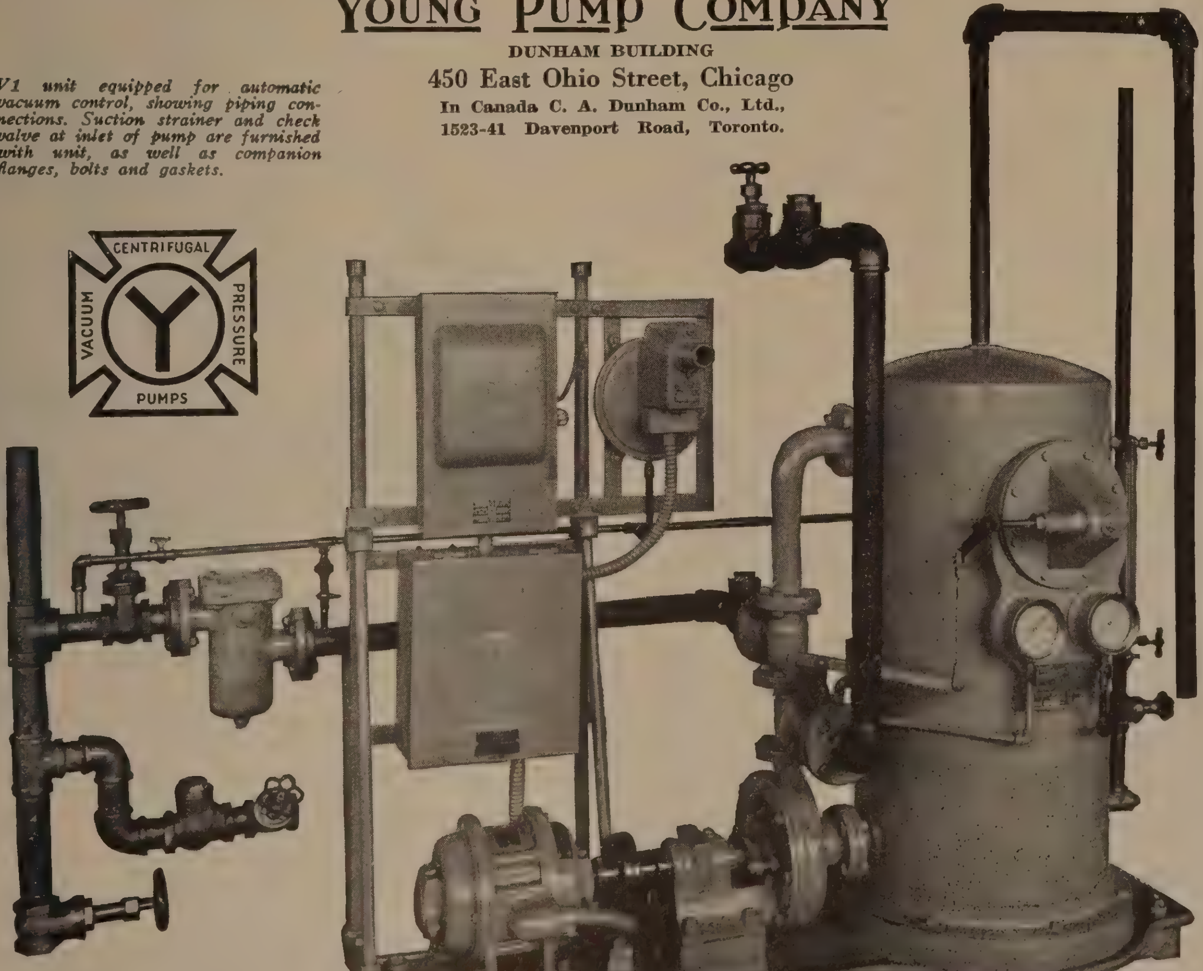
Each Young Pump is completely assembled at the factory and given an actual working test insuring correctness of every part and alignment of every bearing.

Supplied in Standard Units of Seven Capacities

YOUNG PUMP COMPANY

DUNHAM BUILDING
450 East Ohio Street, Chicago
In Canada C. A. Dunham Co., Ltd.,
1523-41 Davenport Road, Toronto.

CENTRIFUGAL
VACUUM Y PRESSURE
PUMPS



V1 unit equipped for automatic vacuum control, showing piping connections. Suction strainer and check valve at inlet of pump are furnished with unit, as well as companion flanges, bolts and gaskets.

ANNOUNCING

THE PFAUDLER
ALUMINUM
LAUNDRY CHUTE

¶ Supplementing the glass-lined laundry chute and the steel dust chute, The Pfaudler Company now offers an Aluminum Chute that will meet every financial consideration.

¶ Built under the same careful supervision you are assured the same high quality workmanship. This chute is constructed of 1/16" aluminum shell with ⅛" throat cylindrically rolled and riveted with countersunk aluminum rivets. Flanged ends are joined by aluminum bolts, securely packed with "Pfaudlerite" gaskets, which makes a watertight connection.

¶ To provide additional strength and durability a glass-lined steel elbow is furnished for the bottom of the chute that will withstand the severest jolts caused by falling linen.

Detailed specifications furnished upon request

THE PFAUDLER COMPANY
Laundry Chute Division, ROCHESTER, N. Y.

PFAUDLER *glass lined*

"Red Metal"
Solid Bronze
SASH CHAINS

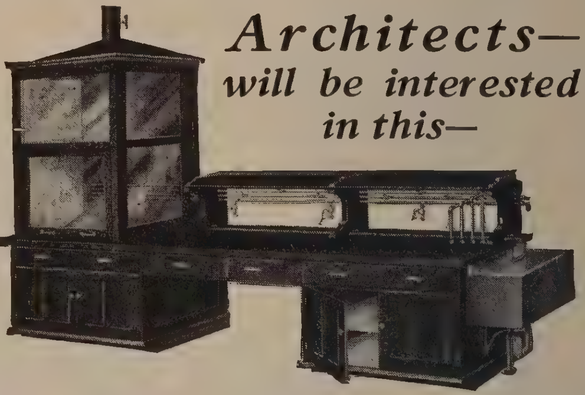
Universally Used Because of Quality and Strength

Our Sash Chains are also manufactured in "Giant Metal" and Steel

The SMITH & EGGE MFG. CO.
BRIDGEPORT, CONN.

ORIGINATORS OF SASH CHAINS

See Page 1443, Sweet's Catalog and Pages 68-69 Specification Manual of the American Architect. Send for Catalog of other Sash Chains.



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We have the largest Library of Laboratory Plans in the world—records of a generation of Laboratory construction.

Whatever the building—whether a School, Hospital or Industrial Plant — Kewaunee's "Library" will prove helpful.

You are welcome to make use of us as one of the departments of your office. Our big Kewaunee Book—showing over 500 standardized designs—free to Architects.

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THE NEW LAKE FOREST HOME OF W. W. AHLSCHLAGER, PROMINENT CHICAGO ARCHITECT, CONTAINS THE FINEST OF MATERIALS AND DECORATIVE EFFECTS. THE KITCHEN AND FIVE BATH ROOMS ARE FACED WITH VITROLITE. THIS ILLUSTRATION SHOWS A CORNER OF THE MAIN BATHROOM IN WHICH VITROLITE IS USED FOR WALLS, FLOOR AND CEILING. THE DECORATION IS IN GOLD, SILVER, ROSE AND GREEN CARRIED OUT ON IVORY, JADE AND BLACK VITROLITE.

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THE VITROLITE COMPANY

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"Frigidaire" Metal Cabinet Refrigerator with Monel Metal compartment—facing and trim. Manufactured by The Delco-Light Co., of Dayton, Ohio.

Frigidaire
PRODUCT of GENERAL MOTORS

Where Monel Metal's Beauty Counts

AMONG the many kinds of beauty, familiar to architects and homebuilders, there is none more appealing than the gleaming, CLEAN beauty of a Monel Metal-trimmed "Frigidaire" Refrigerator.

The permanence of Monel Metal's beauty is the result of its basic properties—steel-like strength, rust-immunity, and corrosion-resistance. The Delco-Light Co. in adopting Monel Metal for "Frigidaire" Electric Refrigerators was guided by its years of experience. Delco-Light knew that Monel Metal is the one material that combines strength with beauty, and cleanliness with long life.

This use of Monel Metal should suggest to architects the many ways in which they can take advantage of Monel Metal's rare properties in designing quality installations. Your files should contain complete information about Monel Metal. Why not write for it today?

SEND FOR "LIST B" OF MONEL METAL & NICKEL LITERATURE

THE INTERNATIONAL NICKEL COMPANY
67 WALL STREET NEW YORK CITY

INCO
MOnel metal

Monel Metal is a technically controlled Nickel-Copper alloy of high nickel content. It is mined, smelted, refined, rolled and marketed solely by The International Nickel Company. The name "Monel Metal" is a registered trademark.

Laying the Clinton Welded Fabric foundation for the floorings in the new French Building at 45th Street and Fifth Avenue, New York

Why the Fred F. French Co. Chose Clinton Welded Fabric

THE Fred F. French Co. is jealous of its fine reputation in the building industry and careful both as to the quality and cost of the structures which it designs, builds and underwrites.

Only carefully considered reasons, therefore, led to the use of Clinton Welded Fabric by the Concrete Arch Co. for the floor arches in the French Building at 45th and Fifth Avenue, New York.

Here are but a few of the reasons governing the choice of Clinton Welded Fabric:

Its wires are made from the highest quality of steel, electrically welded into a homogeneous unit. The use of clips, loops or twistings to hold members in place has been eliminated. Stresses are evenly distributed and uniformly absorbed. Clinton Welded Fabric is furnished in rolls of convenient lengths and widths to assist efficiency in laying.

The Wickwire Spencer Steel Company's circular contains much valuable information concerning the use of Clinton Welded Fabric in buildings, sidewalks, roads and all forms of reinforced concrete construction work.

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ARCHITECTS SAMPLES CORPORATION
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WICKWIRE SPENCER STEEL CO.
41 East Forty-second Street, New York City

WICKWIRE SPENCER STEEL

WICKWIRE SPENCER PRODUCTS

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Modern College Buildings

are modern to the last detail of equipment, and central vacuum cleaning systems are to be found in practically all the newer buildings.

Because of its economy and efficiency The Spencer Central Cleaning System is specified in many of the finest college buildings.

Recent installations include the Dartmouth College buildings illustrated, the Freshman Dormitories at Harvard, the Lawyers Club, at Michigan, several buildings at Phillips Andover Academy, and at the Massachusetts Institute of Technology.

SPENCER TURBINE CO.
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SPENCER
CENTRAL
CLEANING
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NO LOSS TO ANY INVESTOR IN 53 YEARS

SOUND FINANCING FOR NEW BUILDINGS

ADVANCED standards of living and increased population in established centers have created a steady demand for modern apartment buildings, office buildings and business buildings, and other income-producing structures.

The F. H. Smith Company, which specializes in underwriting first mortgage construction bond issues, has completed more than a half-century of satisfactory service to first mortgage borrowers and investors.

The Smith Plan provides both construction and permanent financing at one time. If you are planning the erection of an income-producing building that requires first mortgage financing of $200-000 to $1,000,000 or more, we shall be glad to have you communictae with us.

The F. H. SMITH CO.
Founded 1873
SMITH BUILDING, WASHINGTON, D.C.
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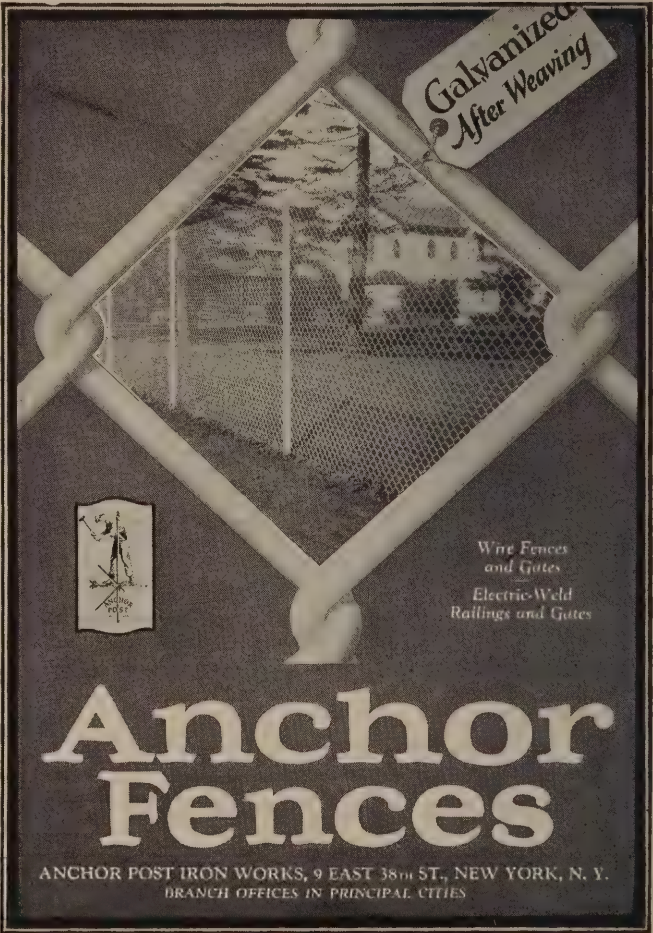
PHILADELPHIA PITTSBURGH BOSTON BUFFALO ALBANY MINNEAPOLIS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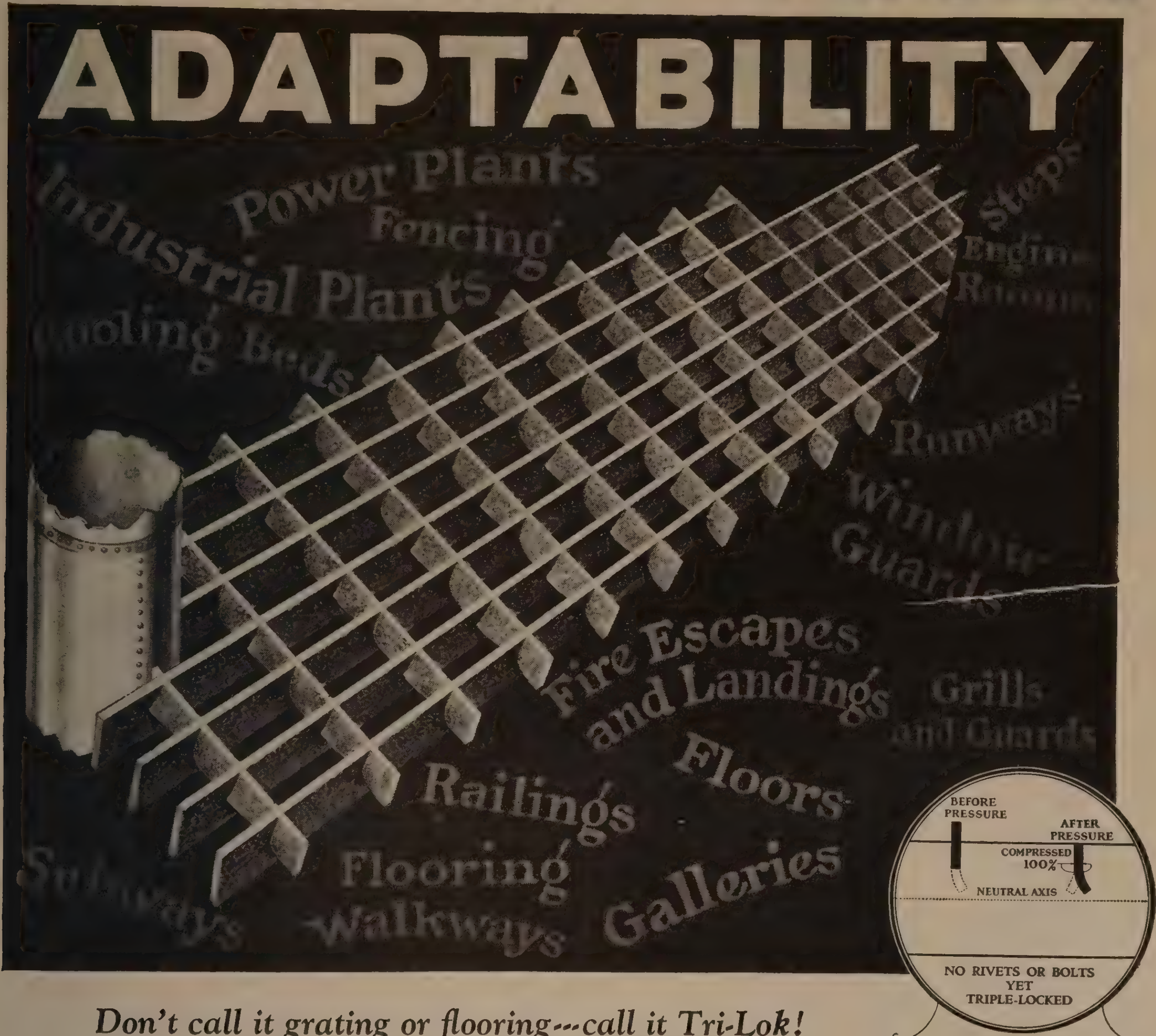
GRATING AND TREAD ADAPTABILITY



Don't call it grating or flooring---call it Tri-Lok!

TRI-LOK paves the way to new uses for grating. Meets requirements heretofore unsatisfied in addition to those already developed.

Gives maximum strength with minimum deflection, complete ventilation, and safe, sure walking surface.

What's more, TRI-LOK costs only about half as much as ordinary grating.

Send now for a bulletin on TRI-LOK and the only tread with a real, visible nosing bar.

What a difference *three locks* make!

First, there is a right-twist lock in every other bar.

Second, there is a left-twist lock in alternate bars.

Third, there is the 1600-ton hydraulic pressure-lock, which is effected by *pressing* the cross bars into the two twist-locks.

Time nor wear can not open the three locks of TRI-LOK.

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TRADE MARK

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A SPELLERIZED STEEL PIPE SHERARDIZED

Cahokia ~
the Super Power Plant at
ST. LOUIS *protects its*
wiring systems with
Sherarduct

National Metal

The National Wiring System ~ FOR SAFETY *And* PERMANENCE ~

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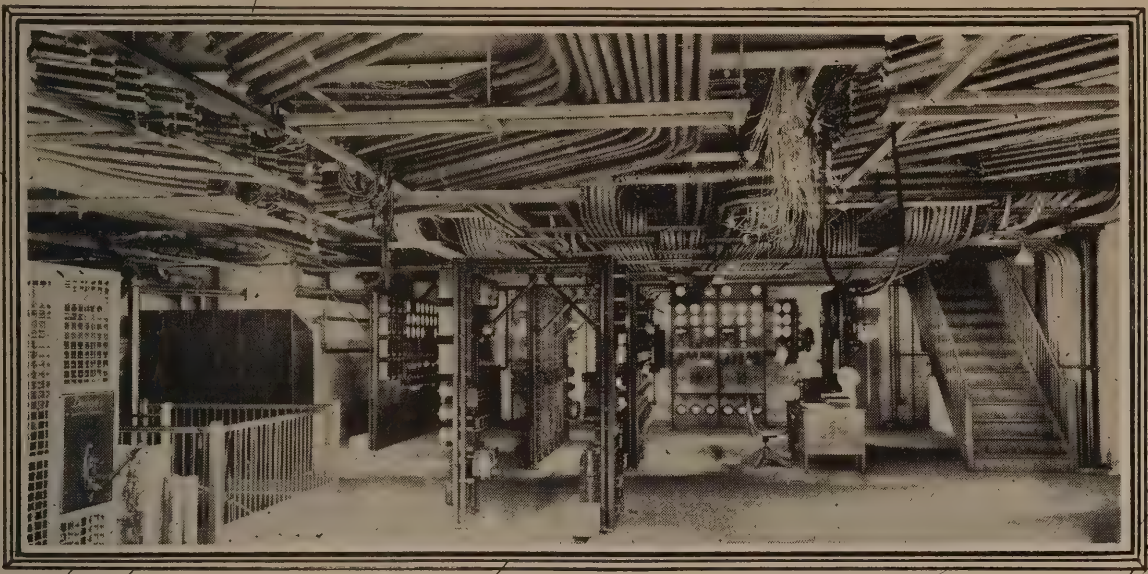
AND ENAMELED FOR SAFE PERMANENT WIRING



TEN carloads of SHERARDUCT will be used at Cahokia when the giant superpower plant is complete. Two sections are finished, the third will come into use early next year and when the fourth section is added, Cahokia, at a cost of $35.000.000, will be the biggest power plant between the Mississippi and the Pacific. The photograph shows part of a SHERARDUCT installation in one of the sections.

SHERARDUCT was selected for its unquestioned superiority, permanence and dependability.

McClellan & Junkersfield, Engineers and Contractors, New York, are in charge of the work.

All you require When YOU WIRE

Molding Company

1101 Fulton Building PITTSBURGH ~ PA.

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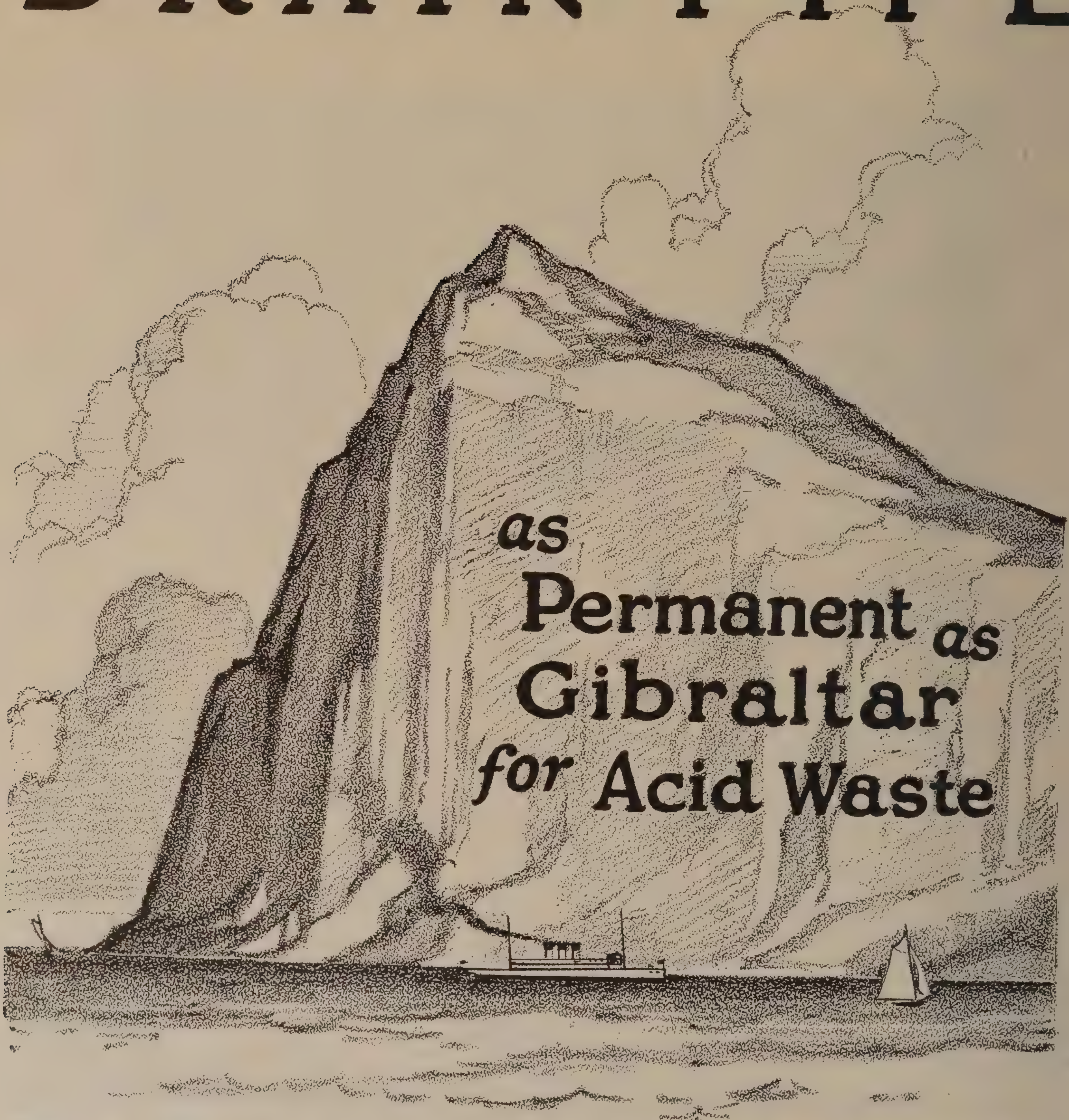
DRAIN PIPE



The DURIRON COMPANY
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TRANE HEAT CABINETS

For Better Heating—More Beautiful Rooms

HERE it is, the new Trane Heat Cabinet—successor to the radiator—a beautiful, decorative cabinet that looks like an artistic piece of furniture and becomes part of the room ensemble.

But beauty becomes secondary when you consider the greater heating efficiency and better control of room heating with this achievement of Trane Engineers.

Trane Heat Cabinets are built on accepted principles of heating, utilizing and circulating heat according to natural laws.

Heat By Convection

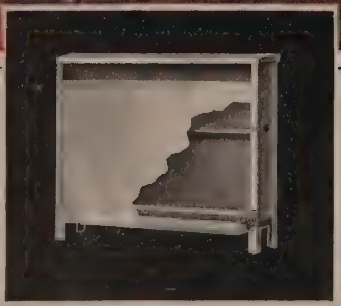
Cabinets contain a U-tube with closely spaced copper sheets attached by a special Trane Process so that they become an integral part of the tube. Heating is accomplished by passing air between these heated sheets. This is the function of the Cabinet, which acts as a chimney.

Cold air near the floor flows in at the bottom of the Cabinet, is heated by the heating element, circulated up through the Cabinet and out into the room. The heated air attains a velocity of 100 feet per minute without aid of fans. This insures very rapid heating of rooms. The forcing of warm air out into rooms instead of permitting it to circulate up along the walls eliminates dirty walls and ceilings.

Perfect Control of Heat

Trane Heat Cabinets are equipped with dampers. Close the damper and room heating stops instantly. The heating element stays hot and again heats air immediately when circulation is re-started by opening the damper. No waiting for pipes to cool or heat up.

Trane Heat Cabinets are adaptable to steam, hot water, vapor, vacuum heating. Ratings on Trane Heating Elements have been carefully worked out to insure the utmost efficiency on all these systems. Heat Cabinets are light, easy to install. Sturdily built. Have no mechanical parts to get out of order. Also built to be concealed in walls. With this type, only opening at baseboard and damper grille are visible. Write today for complete information on Trane Heat Cabinets, successors to radiators.



At left: Visible type Trane Heat Cabinet, cut away to show heating element and damper control.

THE TRANE COMPANY
Established 1885
LA CROSSE, WISCONSIN

SUCCESSORS TO THE RADIATOR

Advertisement Number 8 of the Trane
Undivided Responsibility Series.

B. F. Stephenson Office Building, Detroit, Mich.
Heating Contractor: George Kennedy
Architects: Bonnah & Chaffee, Detroit.

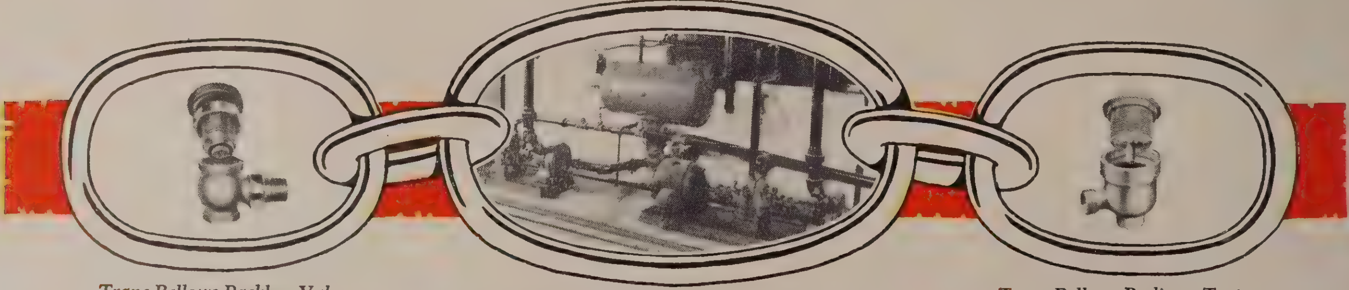
Trane Undivided Responsibility Heating in B. F. Stephenson Office Building, Detroit

Through an entire winter, this big, modern office building was comfortably heated without gauge pressure showing—an exceptional performance that has completely sold the owners on Trane Undivided Responsibility Heating.

The building is the B. F. Stephenson Office Bldg. It is located on West Grand Blvd., the beautiful thoroughfare that circles the city of Detroit. It is 10-stories high. Re-inforced concrete construction, faced with stone.

Below are shown the Trane units used: 18000 sq. ft. capacity Trane Duplex Return Line Vacuum Pump, 294 Trane Bellows Packless Valves and 315 Trane Bellows Radiator Traps. All are fully guaranteed. And the successful operation of the complete job is assured through Trane Undivided Responsibility. Here is a combination that you can always rely on. It is offered exclusively by Trane—the only manufacturer of both high-grade heating specialties and high grade pumps. Let us send you complete information.

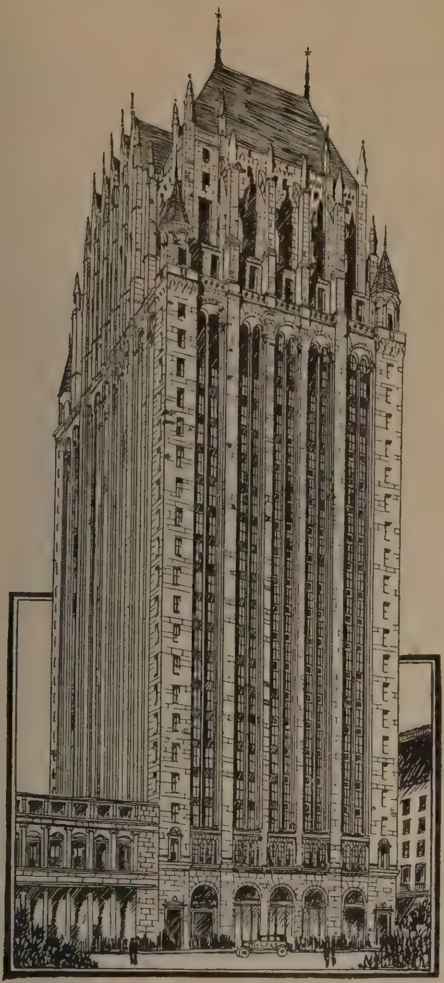
THE TRANE COMPANY, 220 Cameron Avenue, La Crosse, Wis , manufacturers of vapor and vacuum heating specialties, Heat Cabinets, and pumps. Branches and sales connections at New York, Chicago, Boston, Cincinnati, Newark, Philadelphia, Buffalo, Cleveland, Detroit, Seattle, Los Angeles, Albany, Minneapolis, Greensboro, New Orleans, Kansas City, Mo., Zanesville, Ohio, Tampa, Fla , Baltimore, Md., Des Moines, Ia., New Haven, Conn., Sheboygan, Wis. In England: 22-23 Clerkenwell Close, London, E. C. 1. In Canada: The Trane Company, 23 River Street, Toronto, 2; Thomas Robertson & Company, 134 Craig Street, West, Montreal; F. S. Murdoch, 310 Breadalbane, Winnipeg; A. B. Madden, 48 Sparks Street, Ottawa. In Japan: Mitsubishi Shoji Kaisha, Ltd., Thermal Supply Department, Tokyo. In China: C. J. Doughty & Company, 8-9-10 Brenan Road, Shanghai.



Trane Bellows Packless Valve

Trane Duplex Return Line Vacuum Pump

Trane Bellows Radiator Trap



The New
HUNTER-DULIN BUILDING
Under Construction in San Francisco

Architects, Schultze & Weaver

Engineer, Ralph E. Phillips

Plumbing Contractors, Latourrette Fical Co.

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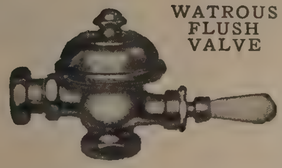
Being Equipped Throughout with the

Watrous Flush Valve

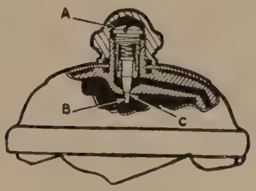


WATROUS FLUSH VALVE

THE Watrous Flush Valve provides an extremely sanitary and economical method of supplying water to a closet bowl. By means of a regulating port (A in diagram on right) the exact quantity of water is supplied to make the closet flush perfectly. This adjustment, when made, remains permanent.

No adjustment is necessary to take care of variations in water pressure.

Every time the valve is flushed, the plunger (B in diagram) is raised off its seat (C), to prevent possible obstruction in the port.



The Watrous Flush Valve functions perfectly under low pressure conditions where other valves often fail.

When the Watrous Flush Valve is used in combination with the Watrous Duojet Closet, there is an increased assurance of economy, as the latter requires only a very moderate quantity of water for a complete flush and refill. Also, the design of the bowl is a dependable safeguard against clogging, overflowing, and the heavy repair bills thereby occasioned. Therefore the total economies made possible by this combination are larger than any building owner can afford to ignore.

PLUMBING DIVISION

Watrous Flush Valves—Duojet Closets—Self-Closing Basin Cocks—Combination Lavatory Fixtures—Pop-Up Wastes—Liquid Soap Fixtures, etc.

THE IMPERIAL BRASS MANUFACTURING CO.

1238 West Harrison Street, CHICAGO

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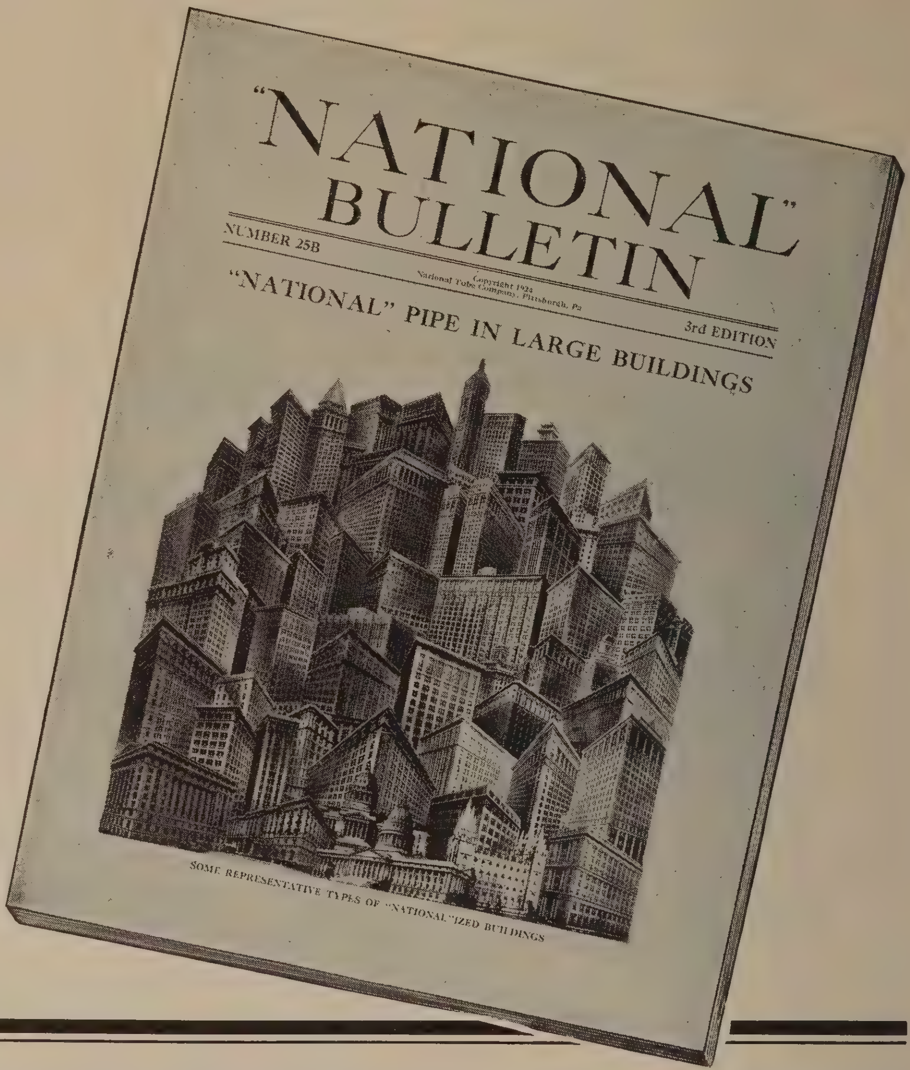
-for your Technical Library

ARCHITECTS, ENGINEERS AND BUILDING CONTRACTORS will find this bulletin both of interest and value. It is not just "another bulletin" or a "piece of advertising" for general distribution. Rather, it has been prepared especially for the convenience of the Architect and Engineer.

In addition to specifications for pipe and tables of weights and dimensions, there are chapters on pipe bends, pipe columns, solid and tubular beams, hand railings, safety factors and safe loads, properties of pipe and other useful data for those directly concerned with the selection and installation of tubular material in all types of building structures.

This is a 76-page book —in convenient 8½x11 (filing) size.



"NATIONAL" BULLETIN

NUMBER 25B

Copyright 1924
National Tube Company, Pittsburgh, Pa

3rd EDITION

"NATIONAL" PIPE IN LARGE BUILDINGS

SOME REPRESENTATIVE TYPES OF "NATIONAL"-IZED BUILDINGS

NATIONAL TUBE COMPANY General Sales Offices FRICK BUILDING **PITTSBURGH, PA.**

Please send Bulletin No. 25-"NATIONAL" Pipe in Large Buildings-to

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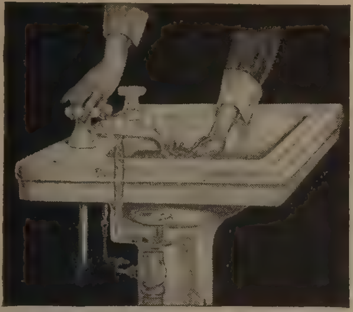
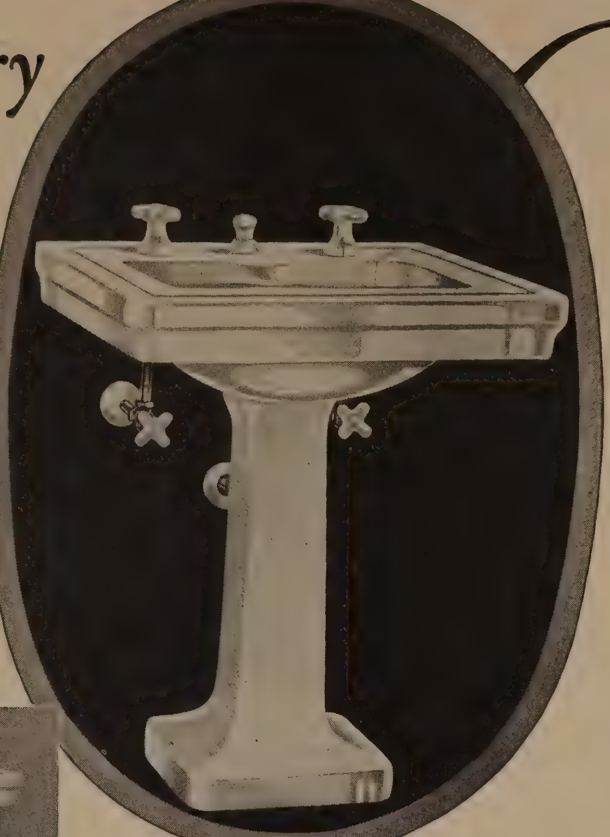
The Madbury Lavatory —a type for each particular bathroom



Self-cleansing overflow, by which overflow drain may be flushed under pressure. It is only necessary to hold a finger over the inlet opening and turn on the water. The water is diverted into the drain, cleansing it automatically.



THE Maddock "Madbury" Lavatory of Durock is the last word in beauty, convenience, cleanliness and durability.

The larger illustration shows the pedestal style; the smaller, the leg style. Both are identical in every detail except the method of support.

Because the leg style costs less to manufacture, it may be furnished at a somewhat lower price than the pedestal style; also it may be supplied, if desired, in a smaller size.

Both styles are made of all white Durock, including trimmings. Durock will not chip, crack, craze nor discolor.

The "Madbury" is the only lavatory made with a self-cleansing overflow, insuring complete sanitation. Hot and cold water, mixed to any desired temperature, is directed to the center of bowl in a single stream. There is a large square bowl with anti-splash rim.

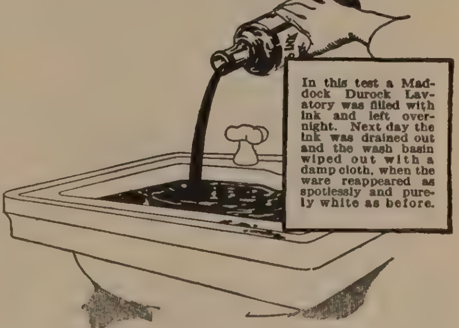
Durock lavatories remain new indefinitely. They can always be kept spotlessly clean by merely wiping with a damp cloth.

Write us for as many copies as you can use of our booklet, "Maddock Bathrooms". They will help you "sell" clients on quality fixtures, and make them more appreciative of such fixtures when recommended. There will be no charge for the booklets.

THOMAS MADDOCK'S SONS COMPANY
Oldest Sanitary Potters in America
Trenton, N. J.

MADDOCK
DUROCK *Bathroom Equipment*

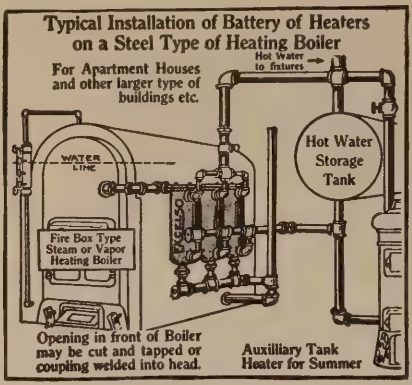
DUROCK
the perfect material for bathroom equipment
will not discolor



In this test a Maddock Durock Lavatory was filled with ink and left overnight. Next day the ink was drained out and the wash basin wiped out with a damp cloth, when the ware reappeared as spotlessly and purely white as before.

DUROCK is so hard and glass-like that nothing can penetrate it. The surface sheds liquids that would sink in and discolor other sorts of ware.

If ink, iodine, or acid is accidentally spilled on a Maddock Lavatory there is no damage done whatever. A damp cloth will always wipe the surface spotless and glistening as new. Maddock Lavatories never grow old and dingy, grey, or brown.


Typical Installation of Battery of Heaters on a Steel Type of Heating Boiler
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EXCELSO
Fire Box Type Steam or Vapor Heating Boiler
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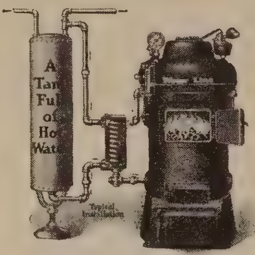
Auxilliary Tank Heater for Summer



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For One Family or One Hundred Families

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THE Excelso Indirect Water Heater saves the cost of heating domestic hot water while heating plant is in operation. It uses the same fire that heats the building, never burns out and keeps the tank full of hot water, day and night.

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WATER HEATERS

NATIONALLY DISTRIBUTED BY LEADING WHOLESALERS AND BOILER AND RADIATOR MANUFACTURERS

Single coil heaters from 30 to 120 gal. capacity. Double coil heaters from 160 to 400 gal. Triple coil heaters, 600 to 800 gal.

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CERTAIN of a dependable supply of clean air for the life of the building at minimum *overall* operating cost.

CERTAIN that you are specifying equipment used for this purpose in the great majority of well known buildings. The two shown here are taken from a long list of outstanding new structures, which will be Midwest-equipped.

CERTAIN of satisfactory performance, because Midwest Air Filters have stood the test of long service.

Ask Dept. AF for
Certified Performance Reports

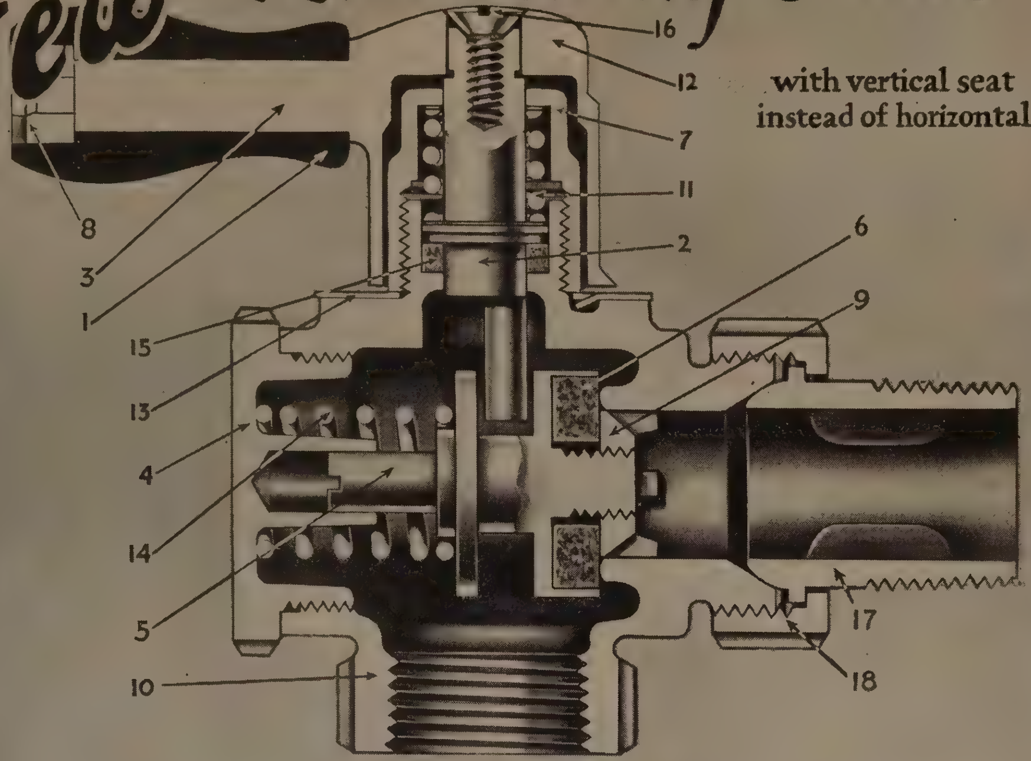
on Midwest installations *in service a year or more.* These reports offer convincing proof of Midwest superiority and show how clean air is a profitable investment.

Columbia-Presbyterian Hospital, New York City.
Jas. Gamble Rogers, Architect.

MIDWEST AIR FILTERS
INCORPORATED
BRADFORD, PENNSYLVANIA
Offices in Principal Cities

The New Modulating Valve

with vertical seat
instead of horizontal



Every Part a Contribution

to greater efficiency in heating radiators

1. RED BAKELITE HANDLE. Will not heat, break or crack.
2. MANGANESE BRONZE SPINDLE. Cam at bottom, action of which permits full or fractional opening.
3. BRONZE ROD through handle, molded into hub.
4. GUIDE CAP, cast bronze, inside of body.
5. DISC HOLDER, cut from solid bronze rod.
6. JENKINS RUBBER COMPOSITION DISC.
7. STUFFING BOX SLEEVE, cut from solid bronze rod. Retains spring and holds spindle properly seated.
8. BRONZE RING, riveted in place, secures handle.
9. GUIDE NUT, cast bronze.
10. CAST BRONZE BODY with vertical crowned seat.
11. STUFFING BOX SPRING of phosphor bronze. Will not corrode or break like steel springs commonly used.
12. HUB FOR HANDLE. Die-molded white aluminum composition, with pointer at bottom serving as indicator on dial.
13. DIAL PLATE, bronze, etched black, nickeled, and marked "OFF-1-2-3-ON".
14. MAIN VALVE SPRING, phosphor bronze, which furnishes strong, positive seating force.
15. STUFFING BOX RING, Jenkins Rubber Composition, compressed by spring. A design which prevents leakage around spindle.
16. BUTTON HEAD SCREW, bronze, engages handle hub in spindle.
17. MALE UNION NIPPLE, cast bronze, on outlet end of body.
18. UNION RING or Nut, cast bronze, beaded or ribbed, not hexagon. Conforms to jaws of pipe wrench and prevents marring valve when installing.

Write for Bulletin 105, which gives complete details and illustrations.

Outside view, Fig. 700, Jenkins Modulating Valve

THE vertical seat prevents scale and core sand from lodging on the seat and hindering tight closing—a difficulty hard to overcome in horizontal seat valves.

Water-hammer, gurgling, and shock are eliminated because steam enters at top of seat and condensation returns at bottom.

Vacuum is always under the disc, preventing any loss of vacuum when the valve is closed.

Made in ¾-inch size, and suitable for 100 square feet of radiation.

If you want to keep good heating—steam, vapor, or vacuum—at its best this is the valve you need.

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80 White Street....................New York
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JENKINS BROS., Limited
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Always marked with the "Diamond"

Jenkins Valves

SINCE 1864

No. 590

Evernu is the perfect seat. The interior wall of special hard rubber of great strength and the outside surface of solid color hard rubber are vulcanized under hydraulic pressure into one lasting piece.

No finish to wear off. No joints to open up. The hollow center provides lightness with strength. The hinge is as durable as the seat

Evernu
Everlasting Hard Rubber
Seats
Patented

Everlasting—
Always New!

NO stain, no paint, no varnish to be worn out by constant cleansing! The finish of an Evernu seat is not a finish in the sense that something has been added. The hard rubber is simply buffed to a high luster. The fine appearance of this seat is as deep, as everlasting, as the hard rubber itself.

In every respect the Evernu is the perfect seat. Light, strong, practically indestructible, impervious to acids, unaffected by steam or low temperatures, provided with a hinge that becomes ever tighter, it is the most economical and pleasing equipment to specify for the finest bathrooms and public lavoratories.

There is an Evernu model for every type of bowl—closed front, open front, and open back and front—for both regular and extended lip bowls. Architects may specify the hinge metal.

Send today for sample cross-section and new catalog.

When a wood seat is needed, install

NEVER-SPLIT

Each seat is carefully fashioned in four sections of QUARTER SAWED lumber, so that the grain runs around the hole. These sections are united in an inseparable unit by four bolts concealed in the wood. So tight is the grip of the bolt, so accurately machined are the tongue and grooves, that it is impossible for the joint to split or come apart. The hinge is designed for great strength and durability. Never-Split Seats are beautifully finished, and there is a type for every bowl.

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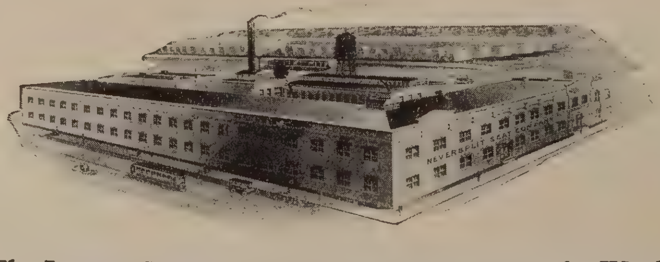
Dept. 1211, Evansville, Indiana, U. S. A.
Founded 1905



The Largest Manufacturers of Toilet Seats in the World!

One Quality~One Purpose

BEHIND the many years of Te-pe-co Leadership in the field of Vitreous China and Solid Porcelain manufacture lies one dominant thought and purpose.

It is to make a product of such ingredients and with such careful skill of workmanship that those who buy may always be able to say with pride to their friends and neighbors—"It's Te-pe-co ware."

To such an end, our ideals of quality may seem unnecessarily high to those content with indifferently made things. Such opinions have never altered our purpose to manufacture and market but one quality and that the finest. Our ware is guaranteed to be equal in quality and durability to any sanitary ware made.

You cannot buy a "second" or "cull" of Te-pe-co.

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Trade Mark
The Sign of One Quality

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TRENTON, NEW JERSEY, U.S.A.

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World's Largest Makers of All-Clay Plumbing Fixtures

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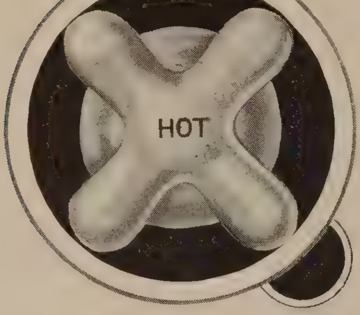

What apology can she offer?

What architect can suggest the apology for this woman to offer? She is experiencing an "embarrassing moment." In her heart she is aware that no apology will do. Her week-end guest has had to ask her how to make the water run in the bathroom. Picture how you would feel yourself if a guest had been trying vainly for half an hour to fill the tub.

The great advantage of installing Mueller Faucets at every water outlet in the home is that Mueller Faucets "work" dependably. When you turn them on they stay turned on. When you shut them off they stay shut off.

They are made in many good-looking styles and various convenient combinations, but it is their simple, scientific *inside* construction—the section that is not seen—that makes them so well worth the few dollars they cost.

Sixty-nine continuous years of quality manufacturing principles are behind Mueller Faucets. Once you see them work, you understand why *informed* people everywhere will accept nothing less than Muellers when they want real service at plumbing's *Vital Spots*.

The number of *Mueller-informed* people is daily increasing. An important reason is Mueller full-page color advertising in leading national weeklies reaching more than 3,800,000 homes every month.

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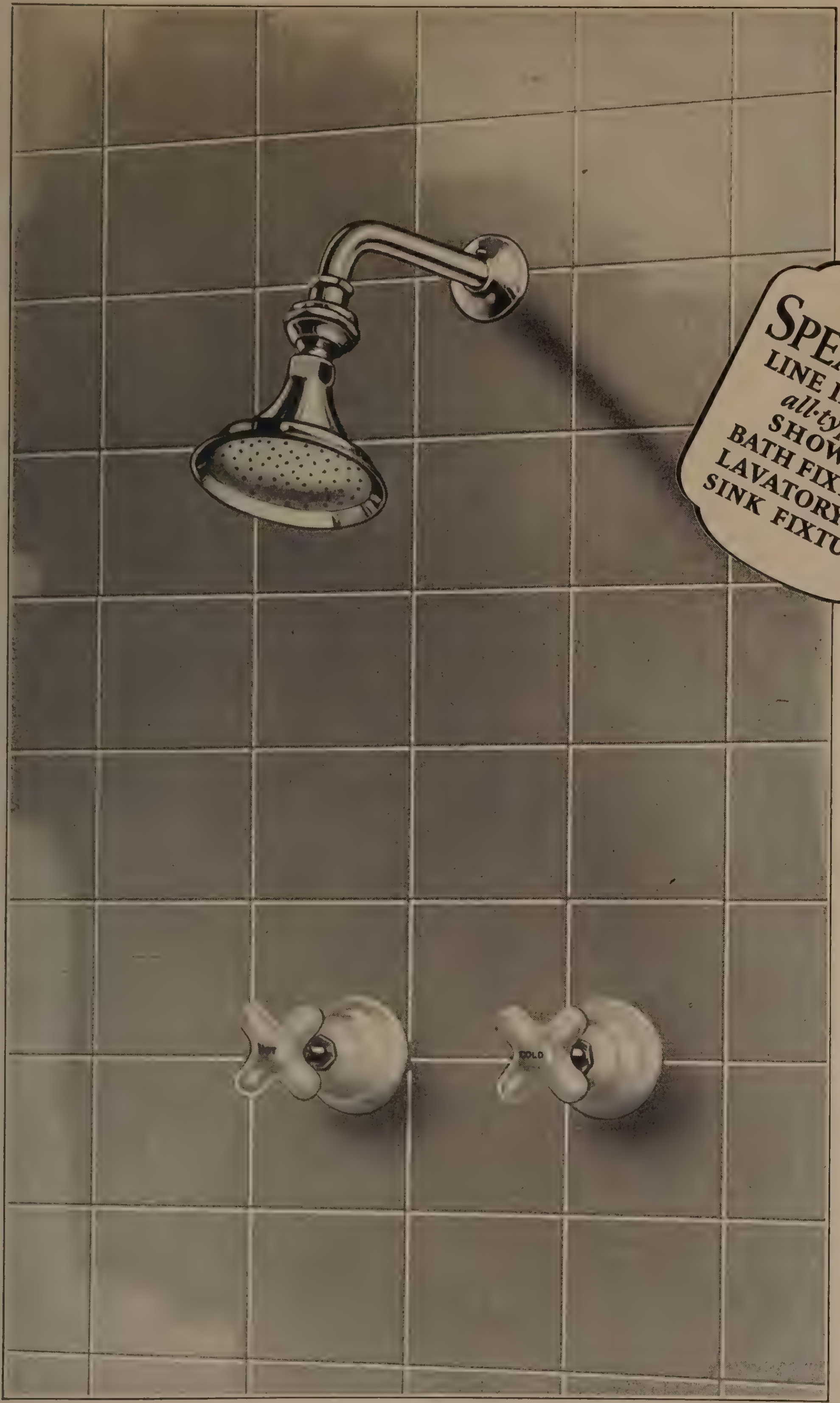
MUELLER FAUCETS

faucets without a fault


COLD
The SPEAKMAN LINE INCLUDES all-types of SHOWERS BATH FIXTURES LAVATORY AND SINK FIXTURES

The finest two-valve shower that we build H 1402

No one could conceive of a finer two-valve shower than this H 1402. Starting from the handles, which are finest china to the head which is cast brass, everything in the H 1402 shower is the last word in refinement and improvement. Valves are Hi Seat type, swivel disc, encased washers and renewable seat. The waterway in these valves has been enlarged; escutcheons adjust from 2⅝ to 3½ inches, special shallow, or special long escutcheons furnished when greater adjustment is necessary.

The H 1402 shower is one of many showers and fixtures described and illustrated in our loose leaf catalog, ready for your files, A. I. A. 29 H 3. Your copy will be sent promptly.

Speakman Company
Wilmington, Delaware

SPEAKMAN SHOWERS
and FIXTURES

Reviews of Manufacturers' Publications

ARMSTRONG CORK & INSULATION COMPANY, Pittsburgh. "Corkboard for Dwellings. A. I. A. Class 37B4."

The losses of heat from the interiors of buildings through their walls and roofs are vast beyond the power of calculation. This is due primarily, of course, to the fact that all the materials of which buildings are ordinarily constructed are relatively good conductors of heat (or should one say inefficient non-conductors?) so that heat within a building readily escapes through its walls and roof and is lost in the outside air where it serves no useful purpose. This publication, intended for actual filing in the specification writer's office, states the case for the well known "corkboard," too widely used, perhaps to require description, but the brochure is useful for showing details of its correct use and giving records of its service in all kinds of buildings.

NATIONAL LEAD CO., New York. "Decorative Possibilities of Paint." Unusual ways of using paint on walls.

The success of manufacturers of paint in suggesting many attractive forms of its use is responsible for the wide employment of paint as a wall covering. Many people suppose that they must give up the undoubted sanitary advantages of washable painted walls unless they are willing to use a plain, unfigured finish. This brochure, however, suggests and illustrates the use of a large number of beautiful and highly decorative wall effects to be had with paint,—blended, mottled and figured,—which are highly desirable without being unduly costly. Architects and decorators will readily appreciate the value of the idea. One of the most interesting uses suggested is in connection with a stencil formed of an ordinary lace curtain with a fairly large mesh. The booklet is valuable on account of the numerous practical suggestions it contains.

NATIONAL LAMP WORKS OF GENERAL ELECTRIC CO., Nela Park, Cleveland. "Hotel Lighting."

It sometimes seems that even in the most modern of hotels the smallest details receive rather more of the architects' attention and study than does the absolutely vital matter of lighting. Consequently one finds that (particularly in hotel bedrooms) there is lavish use of light producing very unsatisfactory results, when proper use of far less would render the rooms well and attractively lighted. This brochure is a small treatise on just this point. It presents (chiefly by illustrations) examples of hotel rooms which are well lighted, and of others which are poorly lighted, explaining why one class of rooms is successful and why the other class fails. The booklet dwells upon the importance of using portable lamps in rooms of certain types, and it emphasizes the desirability of installing many "convenience outlets" for accessories.

COMMON BRICK MANUFACTURERS' ASSOCIATION, Cleveland. "Brickwork Working Details, Vol, 1, No. 1."

Those who follow magazines dealing with architecture and home building have doubtless noticed illustrations of houses built of what is known as "skintled brickwork," the term originally applying to a method of arranging brick in the kilns while they were being burned. It seems to have been reserved for certain architects in Chicago to discover—or perhaps to re-discover—the possibilities inherent in good grades of common brick, with all the subtle shading and variation of color which are given by use of different clays and the unequal action of heat. This brochure puts this particular use of common brick into practical and workable form for architects; it illustrates the several different methods by means of which brick may be advantageously used to produce what is known as the "skintled" effect, and it gives quite a number of illustrations of houses so built which leave little doubt in the mind as to the bold effectiveness of the use, if sufficient care has been taken and skill exercised in the important matter of design.

INTERNATIONAL HEATER COMPANY, Utica, N. Y. "The International Carton Warm Air Furnace."

The matter of choosing a heating system is a detail regarding which a wide difference of opinion exists, and there are and no doubt always will be those who insist upon having a warm air furnace and who will use nothing else. It provides the oldest form of central heating. This excellent brochure goes into all the ins and outs of the use of heating by warm air furnaces, and it illustrates the different parts of the furnaces made by the International Heater Company, one of these parts or details being the International Carton Self-cleaning Radiator. The brochure gives directions for properly sizing furnace systems and some valuable data regarding chimneys, upon which, of course, furnaces are dependent for draft, an absolutely vital matter.

UNITED STATES GYPSUM COMPANY, Chicago. "The Gypsumist; Architects' Edition." A monthly publication.

Certain manufacturers are producing for distribution among architects what is probably frankly advertising matter, but which is so useful and instructive (not to say beautiful) that it serves a purpose much broader than keeping before the eyes of architects and their specification writers the merits of certain materials. This is particularly true of this little periodical issued to architects. The number for May, 1926, for example, was largely given up to one part of "Studies in the Styles of Enrichment," Part II being devoted to Moorish design and splendidly illustrated by half-tones of little known details of the type. Other pages dwell upon the use of Moorish ornament in bas-relief upon walls made up of materials sold by the company. A file of *The Gypsumist* would be decidedly valuable to any architect fortunate enough to possess it.

ATLANTIC TERRA COTTA CO., New York. "Atlantic Terra Cotta; Printed for Architects." Vol. VIII, No. 8.

Architectural use of polychrome terra cotta produces results so strikingly excellent that it is strange the material is not more frequently employed. This particular issue of *Atlantic Terra Cotta* deals with certain zoning regulations and is concerned largely with the new structure designed by Horace Trumbauer of Philadelphia to house the *New York Evening Post,* a building showing an unusual adaptation of Romanesque forms and developed in brick and brilliant polychrome terra cotta, this latter material being used in panels massed in ways which suggest richly designed mosaic, terra cotta in buff-gray being used for window trim, copings and cornices. The structure, which is a notable addition to New York's water front, excels by reason of its design as well as by its striking use of terra cotta. This publication abounds in valuable suggestions.

CENTRAL RADIATOR COMPANY, New York. "Give a Thought to the Chimney." A work on its importance.

The publication of this small folder is a real service to architects, engineers and builders. It requires but little thought to realize that scarcely any part of a house—except perhaps its roof—is of more importance than the chimney, and yet few details suffer more from careless designing. Neither does it require much thought to realize that defective chimneys cause vast waste of heat and coal. Many a costly heating plant has been condemned and many a boiler taken out because owner or steamfitter supposed the boiler to be at fault when the trouble was caused by the chimney. The National Board of Fire Underwriters places the annual loss by fires due to defective chimneys at $14,000,000. Rules for building chimneys are neither many nor difficult to follow, and this little folder would be valuable indeed to architects or engineers building new chimneys or altering or repairing the old. It will doubtless prevent the building of many unsatisfactory chimneys besides aiding the correction of faults in many already built.

THE KOHLER
ELECTRIC SINK

KOHLER OF KOHLER announces the Kohler Electric Sink, a most important addition to the labor-saving equipment of the modern home kitchen. The perfected electrical dishwasher, built into Kohler sinks of special design, in models for all installations . . . You are urged to investigate. Please write for descriptive literature.

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Plumbing Fixtures

Reviews and Announcements

JOSEPH HARRINGTON COMPANY, Harvey, Ill. "The King Coal Automatic Mechanical Stoker."

Careful study of problems connected with combustion has proved that with properly equipped plants for heating or power it is possible to prevent smoke and also to economize in the amount and value of the fuel used. Much of this prevention of smoke and saving of fuel are the result of using proper stoking apparatus, and this booklet describes and illustrates in detail the "King Coal Automatic Mechanical Stoker," which is now being used in a large number of hotels, hospitals, schools, office buildings and other large structures. One hotel reports a saving of 50 per cent in its cleaning bills, due to the absence of smoke since using the "King Coal" stoker, and other users report that owing to its installation it is possible to use the cheapest sort of fuel.

THE ZAPON COMPANY, 247 Park Avenue, New York. "Zapon Architectural Specifications."

The function of any finish for wood is two-fold,—to enhance the beauty of the surface and to prolong the life of the material. This brochure is devoted to describing the finishing materials for interior surfaces known as "Zapon Obs" lacquers and lacqer enamels and to giving specifications for their use. These materials are made upon what is known as a pyroxylin base, which causes them to dry, free of dust, in a few minutes and to become hard in from two to six hours, due to the rapid evaporation of the solvents in which the pyroxylin and gums are dissolved. The appearance of a pyroxylin finish is always attractive for the reason that, being stable, it does not become dingy with age. Further, the film is so smooth that dirt does not adhere to it, and its beauty is very easily maintained.

P. & F. CORBIN, New Britain, Conn. "Early English and Colonial Hardware." A work extremely valuable to architects.

Discriminating architects and builders discovered long ago that the appearance of structures of many kinds could be greatly improved or utterly ruined by the hardware used upon them. This led in many instances to the designing and making of special hardware, satisfactory enough, but nearly always so costly as to be almost prohibitive. When this course was not possible use was often made of the usual stock hardware, quite unsuited to houses in the Old English or so-called Colonial styles, in which hand craftsmanship plays so large a part. This brochure illustrates and describes a most admirable line of hardware for buildings of just these types,—proof against rust, and designed with the taste and attention to minute details which distinguish all the products of this concern. The assortment includes hinges of various types; door handles; knobs and escutcheons; key plates; locks and latches.

AMERICAN BLOWER COMPANY, Detroit, "Electric Ventilation." A booklet on its value and use.

One of the results of extremely high building costs has been the intensive use of space within buildings, and this use has logically brought with it a keen appreciation of the value of adequate ventilation. Architects and builders know quite as well as do physicians and social workers that proper ventilation is absolutely necessary if those who dwell or work in a structure are to live comfortably or work efficiently. More than in most places is ventilation vitally important in buildings containing many very small housekeeping or "semi-housekeeping" apartments, with kitchens or kitchenettes which often have no windows to the open air, and in apartment or hotel structures where inside bathrooms and toilets, unless they are artificially ventilated, become intolerably objectionable. This brochure dwells fully upon the value in obtaining proper sanitation of American Blower Fan Ventilation, and it gives diagrams which are likely to aid the architect in designing and the builder in installing fan ventilation in theaters, billiard rooms, restaurants, offices, stores, bakeries, laundries, garages, toilets, locker rooms, telephone booths, laboratories, barns, projection booths, and many other places.

Theodore L. Perrier announces his removal from 310 Carondelet Street to Canal-Commercial Building, New Orleans.

John Stafford White, of Ringling & White, Inc., 17 East 42nd Street, New York, would appreciate receiving the samples, catalogs and other matter issued by manufacturers.

Roland Schultheis, formerly with Olmsted Brothers, Brookline, Mass., announces the opening of offices for the independent practice of landscape architecture in the Roosevelt Theater Building, 160th Street and Northern Boulevard, Flushing, N. Y.

STATEMENT OF THE OWNERSHIP, MANAGEMENT, CIRCULATION, ETC., REQUIRED BY THE ACT OF CONGRESS OF AUGUST 24, 1912, OF THE ARCHITECTURAL FORUM.

Published Monthly at New York, N. Y., for November 1, 1926.
State of New York, County of New York, ss.:

Before me, a Notary Public, in and for the State and County aforesaid, personally appeared Robert Sweet, who, having been duly sworn according to law, deposes and says that he is the business manager of The Architectural Forum and that the following is, to the best of his knowledge and belief, a true statement of the ownership, management, etc., of the aforesaid publication for the date shown in the above caption, required by the Act of August 24, 1912, embodied in Section 443, Postal Laws and Regulations, to wit:

1. That the names and addresses of the publisher, editor, managing editor, and business manager, are:
Publisher—Rogers & Manson Co., 383 Madison Avenue, New York, N. Y.
Editor—Parker Morse Hooper, New York, N. Y.
Managing Editor—None.
Business Manager—Robert Sweet, New York, N. Y.

2. That the owners are:
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3. That the known bondholders, mortgagees and other security holders owning or holding 1 per cent or more of total amount of bonds, mortgages, or other securities are: None.

4. That the two paragraphs next above, giving the names of the owners, stockholders, and security holders, if any, contain not only the list of stockholders and security holders as they appear upon the books of the company but also, in cases where the stockholder or security holder appears upon the books of the company as trustee or in any other fiduciary relation, the name of the person or corporation for whom such trustee is acting, is given; also, that the said two paragraphs contain statements embracing affiant's full knowledge and belief as to the circumstances and conditions under which stockholders and security holders who do not appear upon the books of the company as trustees, hold stock and securities in a capacity other than that of a bona fide owner; and this affiant has no reason to believe that any other person, association, or corporation has any interest direct or indirect in the said stock, bonds, or other securities, than as so stated by him.

ROBERT SWEET,
Business Manager.

Sworn to and subscribed before me this 14th day of October, 1926.

(Seal) WILLIAM A. LOW.
(My commission expires March 30, 1927.) Notary Public.

VAN RENSSELAER P. SAXE, C.E.
Consulting Engineer
STRUCTURAL STEEL
CONCRETE CONSTRUCTION
Knickerbocker Building Baltimore

Brick and Stone *were* *not enough!*

So the architects of this bank advised a coat of this remarkable waterproofing to insure dry interiors

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Raymond F. Almirall, New York, Architect

DAMP buildings are unhealthy places in which to work. In order to insure the Emigrant Industrial Savings Bank dry interiors, the Everready Service Company of New York applied Hydrocide Colorless to the exterior walls.

This material keeps the interior of this building dry in even the dampest weather. In addition it preserves the natural beauty of the brick and stonework. It prevents the walls from becoming streaked and discolored.

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Many leading architects are recommending Hydrocide Colorless today. They have found that it gives them dry, beautiful buildings. If you would like more complete information about this product, send for literature and a free demonstration sample.

Hydrocide Colorless

Waterproofing

Other Sonneborn Products

Lapidolith—The original concrete floor hardener. A liquid chemical that changes the floor surface to a fine dense crystalline structure of flint-like hardness. Hundreds of millions of feet of concrete floor have been Lapidolized in the leading industrial plants of the country.

Cemcoat—A paint that stays white longer than any similar paint; can be washed again and again; sticks to brick or concrete as easily as to wood; and usually requires one less coat. Made for both interiors and exteriors, in white and colors, and in gloss, eggshell, or flat enamel finish.

Lignophol—A preservative dressing for wood floors that penetrates and restores the natural oil and gum of the wood. Lignophol prevents rotting, drying out, and splintering; it is not sticky; it can easily be washed; and does away with ordinary floor oils.

Stormtight—The famous semi-liquid compound for mending and preserving roofs. The thick, adhesive rubber-like material can be applied by anyone, over any kind of roof, and gives a tight new surface that lasts for years. Made in four beautiful colors. Mends a single leak or makes an entire roof watertight.

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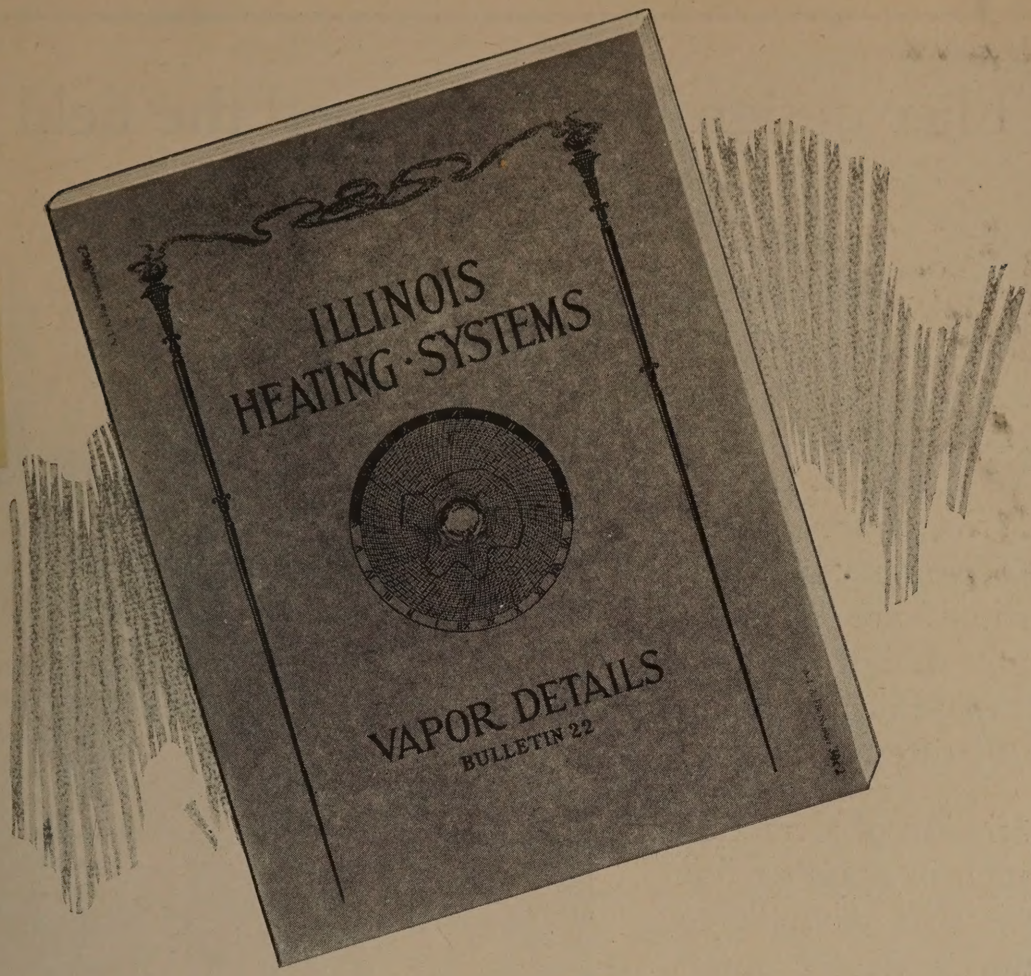

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ROBT. L. GIFFORD President **INCORPORATED 1900**

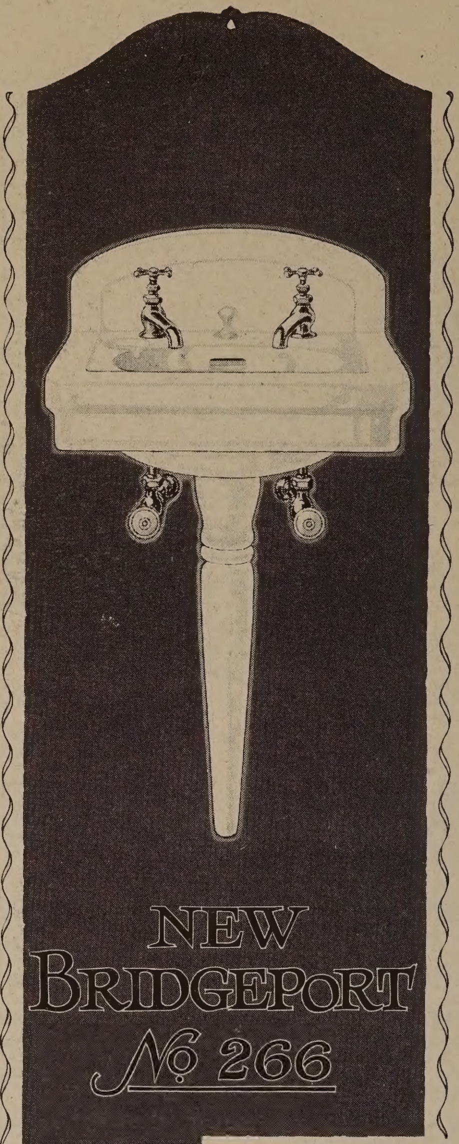
CHICAGO

Eljer design has broadened the field for Eljer China

The gracefully designed curve of the back of this New Bridgeport fixture No. 266, and its beautiful proportions, are examples of many design features found in Eljer Vitreous China Fixtures.

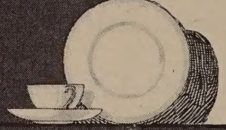
The variation of a fraction of an inch in mass or line is more than enough to proclaim a fixture smart and unusual—or commonplace and dull.

Every finished Eljer product is a combination of fine materials moulded into an outstandingly fine design. And this combination makes Eljer fixtures adaptable to any job where the unusual is appreciated.



**The
New Bridgeport
No. 266**

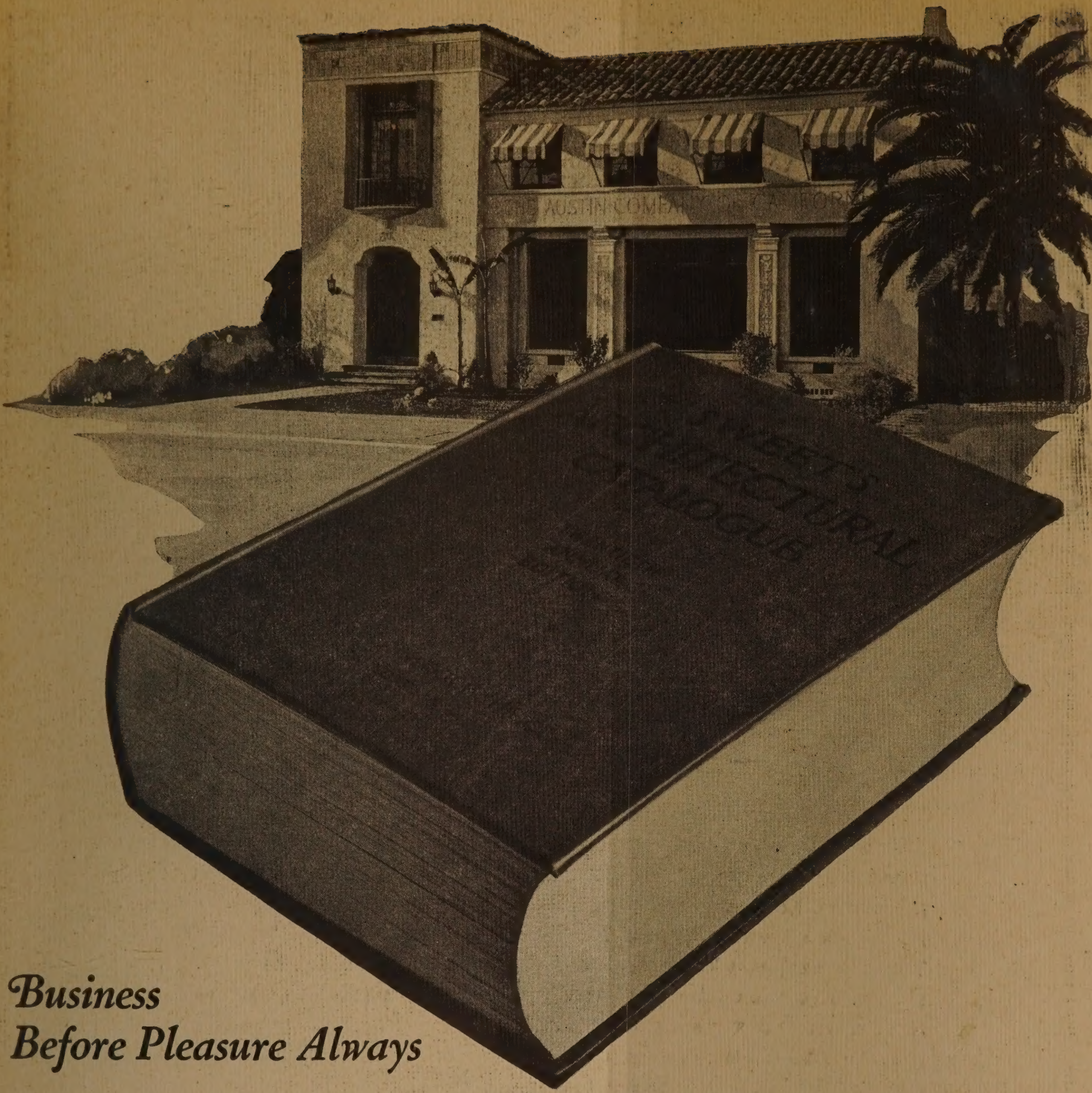
This rounded-back, straight-front lavatory with oval basin has a patent overflow, integral depressed soap holder, anti-splash rim, integral back with concealed hangers and vitreous china leg. It is a good example of Eljer design, with real spirit and character in every line. You can use it with the assurance of having an outstandingly fine installation.



Plumbing fixtures of Eljer China are similar in texture to the finest French Table China—but with the added toughness necessary to withstand rough usage, Acid-proof and rust-proof.

ELJER COMPANY
Ford City, Pa. Cameron, W. Va.

ELJER
VITREOUS CHINA PLUMBING FIXTURES



Business Before Pleasure Always

To the architect that means the specification of the elemental construction units first with a minimum of time and effort, reserving the enthusiasm for more interesting details.

Turn to Sweet's and copy the Medusa Portland Cement catalogs. Arranged carefully for convenient reference and supplemented by an engineering department ready to give its help freely on individual problems.

Medusa Portland Cement is just as good to use as it is easy to specify. Results are certain and that's what you want.

THE SANDUSKY CEMENT COMPANY
The Engineers' Building Cleveland, Ohio

Manufacturers of Medusa White Portland Cement, (Plain and Waterproofed); Medusa Waterproofing (Powder or Paste); Medusa Gray Cement (Plain and Waterproofed); and Medusa Cement Paint.

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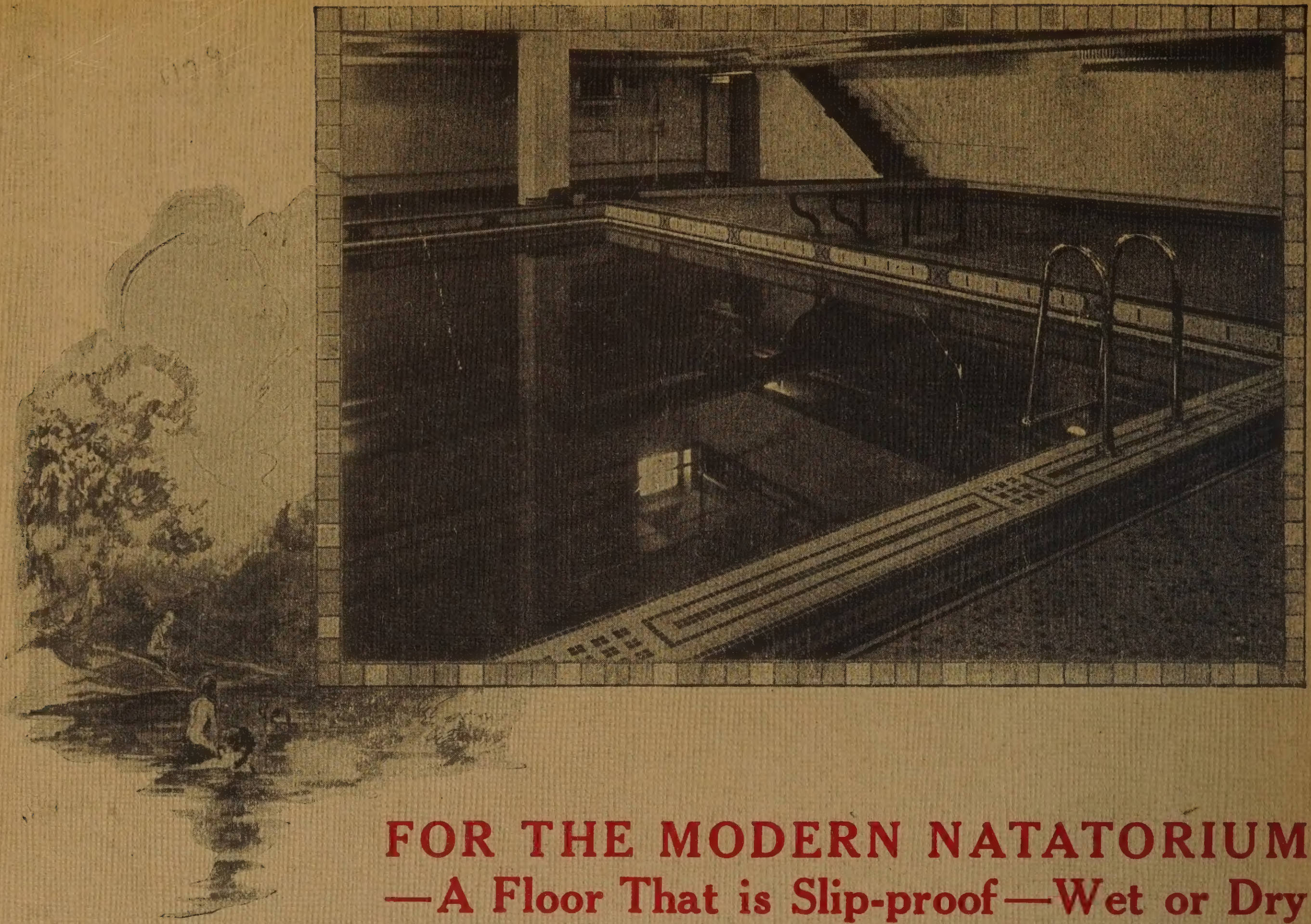

FOR THE MODERN NATATORIUM
—A Floor That is Slip-proof—Wet or Dry

THE new swimming pool at the Worcester Polytechnic Institute, Worcester, Massachusetts represents the latest word in natatorium design. The curb and the entire floor surrounding the pool have been made slip-proof—even when wet—by the use of Alundum Ceramic Mosaic Tile in combination with vitreous tile. The color scheme has been worked out in red and gray, the college colors. For the curb ¾″ square gray Alundum mosaics have been used with red vitreous mosaics. The floor is ¾″ square white granite Alundum mosaics combined with red and gray vitreous tile. At the bottom of the stairway from the locker room is a foot-bath lined entirely with white granite Alundum mosaics.

Precast Alundum Aggregate Treads with precast marble risers to match have been used on the stairways.

NORTON COMPANY, WORCESTER, MASS.
New York, Chicago, Detroit, Philadelphia, Pittsburgh, Hamilton, Ont.

T-177

NORTON FLOORS
Alundum Tiles, Treads & Aggregates